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Howard & Smith  
1913—



Howard K. Smith  
— 1913 —



# To Our Customers:



*WE TAKE pleasure in presenting you with our catalogue of 1913, and desire at the same time to express our thanks for the liberal patronage which you have favored us with in the past, with assurance that we will at all times use our best endeavors to merit it in the future.*

*A careful perusal of this season's catalogue will disclose the addition of many fine novelties, all of which have had a thorough trial to test their merits, and which will prove valuable additions to any garden.*

*We have added a more complete list of cultural notes for the guidance of our customers. These notes are based on our own practical experience, extending over a period of several years of gardening in California; and we feel they will prove an acceptable help to those less informed.*

*During the past year we have increased our nursery area materially, and have at the present time forty acres exclusively devoted to the culture of Roses. Our output for 1913 will exceed a quarter of a million plants.*

*Our stock of flowering and decorative plants was never as large or fine. We feel we are in a better position than ever to take care of our customer's wants and to deliver goods of a quality which cannot fail to give satisfaction.*

*Respectfully,*

*HOWARD & SMITH.*

## Terms of Business:

Our customers are requested to carefully read the following:

**SHIPPING.** We strongly advise the shipment of all plants by express, as it insures prompt delivery. In the case of heavy balled plants, as large roses, palms, etc., shipment can be made by freight, and by our careful system of packing they travel long distances in good condition.

**PACKING.** No charge for packing or delivery to Freight or Express Offices in Los Angeles.

**TERMS.** Our terms are strictly cash, except from customers whose credit is already established. We do not ship plants C. O. D.

**ORDERS.** It often happens that we receive orders for plants which are not in season; in such cases a later shipment will be made and the customer notified to that extent.

**SUBSTITUTION.** It is almost impossible to forecast exactly what the demand will be for any particular plants in our list, and sometimes we sell out early in the season. In placing orders, please state whether we are at liberty to substitute or not. Where we do this we will use every endeavor to give equally good or, if possible, better varieties.

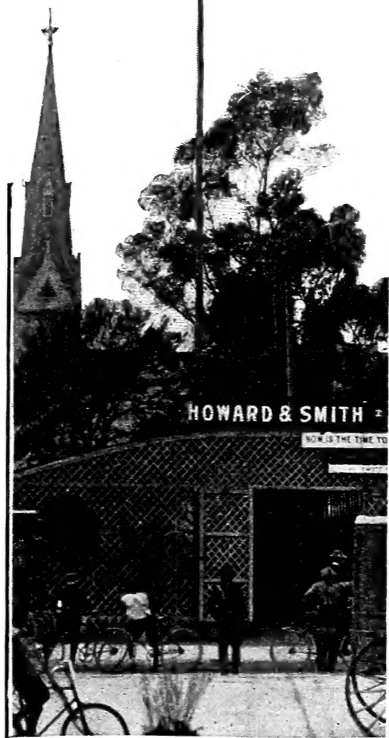
**NAME AND ADDRESS.** In order to facilitate the prompt delivery of shipments, we ask that patrons write plainly their Name, Postoffice, County and State. This is important, as often the name and address is indistinctly written, thereby causing unnecessary delay.

**NON-WARRANTY.** We exercise the greatest care in the selection, packing and labeling of plants and trees, but give no guarantee, express or implied, as to their growth, productiveness, quality, or any other matter of any trees, plants or seeds we send out, and will not be in any way responsible for crops. If the purchaser does not accept the goods on these terms, they must be returned at once.

**TRIAL GROUNDS AND NURSERIES,** Situated at Montebello, California, eight miles east of Los Angeles, on the Salt Lake Railway.

**CITY SALES DEPARTMENT,** N. W. Corner Ninth and Olive Sts., Los Angeles, Cal.

Please address all correspondence to Postoffice Box 484,  
Los Angeles, California



### One of the Landmarks of Los Angeles

**A** SPECIMEN of Eucalyptus Citriodora at our City Sales Department, planted by one of the members of our firm eighteen years ago. At that time it was a slender wisp of a plant scarcely 18 inches high; at the present time its actual measurements are—Height 130 feet; Diameter at the base 12 inches; Distance to lowest branches 120 feet. Like our firm it is still growing.



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*Sunburst*



# The Rose

## Our Leading Specialty

**W**E have made the Rose our leading specialty for many years, and have devoted an immense amount of energy, time and money in developing the best methods for the production of fine plants, and in testing out the numerous novelties which appear year after year in both Europe and America.

It will be noted that our list of varieties is not a long one, for there are growers in this country who offer as high as six hundred sorts, a large percentage of which are simply an incumbrance to the ground which they occupy in the garden.

Our idea is to keep our list down to the fewest possible number, and to offer only those which are distinctive in character and improvements over those already in commerce.

As a matter of fact, the Rose World was never richer in sterling new varieties than at the present. The past ten years have brought forth a galaxy of varieties which are beyond all compare—far and away ahead of

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The premier favorite of all cultivated garden plants, even from earliest history—the Rose still holds undisputed sway as the Queen of Flowers.  
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roses known previous to that time. The recent hybrids of Soleil d'Or, known as the Pernetiana class, have evolved a new series of colors of matchless beauty, of which the magnificent Lyon Rose is a fine example.

The newer Irish Roses, of which Killarney may be regarded as the leading type, abound in varieties of exquisite form and colors. We have

a large number under trial, both from American and European hybridists, and if we may judge from preliminary results, there is a most pleasant surprise in store for those who appreciate a fine Rose—and where is the person who does not?

The season of 1912 again brought an unprecedented demand for our heavy two year plants, with the result that, as in the fall of 1911, we have again to face a shortage in some sorts. We will have for the coming Summer, Fall and Winter delivery a full complement of all varieties.

## Novelties for 1913

### The Finest Set of New Roses Which We Ever Sent Out in a Single Season

**Arthur Goodwin.** This magnificent new rose belongs to the famous pernetiana race, and offers a new color series in roses. The flowers are large and full; on opening are rich coppery orange red shading to deep salmon pink as the blooms mature. The plants are strong growing and well branched. We have only a limited stock to offer this season. Price, each, \$1.00.

**Commander Jules Gravereaux.** A very vigorous rich crimson flower with enormous shell like petals, the edges of which are usually irregularly serrated, giving the whole bloom an unusual and attractive appearance. Although only fairly full as to petalage, the bloom is of exquisite texture. This, coupled with its enormous size and glowing color, catches the eye at once. It reminds one of a large red Frau Karl Druschski. Price, each, \$1.00.

**Edward Mawley.** Among the many good new roses we have to offer our customers for this season, this variety stands out pre-eminently as one of the very best. It outdistances any other dark velvety crimson rose in our collection from any point of view from which one might wish to take. It is a great big bloom composed of immense cupped petals, and is by all odds the richest and darkest color yet produced in the hybrid tea section. The plants are of vigorous growth and almost constantly in bloom. We feel no hesitancy in recommending it as the best rose of its color in cultivation today. The stock of this rose which we now have ready for delivery is limited. Price, each, \$1.00.

**Entente Cordiale.** A beautiful creamy white hybrid tea originating from a cross between Kaiserin Augusta Victoria and Madam Abel Chatenay. It possesses the good qualities of both the parent plants. The buds are perfection in form; the growth is vigorous to a degree. This sterling variety will prove a splendid addition to the list of varieties grown for cutting purposes. Price, each, 75 cents.

**George Arends.** A very fine novelty from Germany which has been relatively referred to as the Pink Frau Karl Druschski. The plant in general character of growth, shape of bloom and manner of flowering is not unlike that of Druschski, differing mainly in color which is superb silvery rose pink. We predict that when this rose becomes better known it will become a favorite with all rose lovers. Price, each, \$1.00.

**JULIET.** Of all the sensational novelties in roses which have appeared during recent years, particularly as applied to roses of hitherto unknown colors, we believe this new variety will easily head the list. To give an adequate color description is a most difficult thing to do, the coloring being absolutely unique. The outside of the petals over their entire surface are a deep old gold, while the reverse or interior is an exquisite shade of deep rosy red or scarlet in the opening bud, which gradually changes to orange pink as the blooms mature. While we are telling you the good points of this rose we also desire to tell you some of its faults. The only one it possesses is the fact that it is a cropper, it flowers in masses principally during the spring and late autumn, and is usually devoid of bloom during the summer, but even with this fault admitted if it only threw one flower to a plant during the year, it ought to find a place in the finest rose gardens, for there is nothing in existence to equal its glorious color. The foliage is mildew proof and the plants are of unusually vigorous growth: buds and blooms very large, beautifully formed and intensely fragrant. Price, each, \$1.00.

**Lady Hillingdon.** An ideal yellow tea rose with a splendid long bud. It blooms continuously throughout a long season and is unsurpassed as a cut flower. Its deep apricot yellow is of an especially rich tone. This new variety hails from England, where it received numerous first prizes. The open bloom is only fairly full but cut in the bud state is of superlative beauty. Price, each, \$1.00.

**Marquis de Sinety.** It is distinct novelty by way of color, being a rich coppery orange shaded with red. The buds are of elegant form, long and pointed. The unusual coloring of the bloom is greatly intensified in the opening bud, and when cut at this stage of development is a subject of admiration to every one. Price, each, \$1.00.

**Mary, Countess of Ilchester.** Blooms of immense size, with large circular petals. Color rich dark rose. The plant is of exceedingly vigorous growth with heavy leathery foliage. One of the best roses of its color grown. Price, each, 75 cents.

**Mrs. Myles Kennedy.** Although not particularly a novelty rose, having been sent out a few seasons ago, we are offering this superb variety for the first time this season. In common with all roses we distribute, we subject them to a rigid test for quality and productiveness, and we feel certain that this is going to prove a splendid addition to California rose gardens. The color is a delicate silvery white, with the edges of the petals rimmed with deep rose. The buds and open blooms are perfection in form, borne on stout canes with an unusual quantity production. Price, each, 75 cents.

**Mrs. Arthur E. Coxhead.** A grand addition to the list of red roses, with long pointed buds and very large full blown flowers. This rose exceeds any other variety we know of in the enormous size of its individual petals. It has the same delightful perfume as the old Damask Rose, a quality lacking in many of our newer hybrid teas. Color dark red with deeper shadings towards the outside of the petals. Price, each, \$1.00.

**RADIANCE (See Cut).** A new rose of American origin, and to our minds one of the most meritorious of recent varieties. The buds are large and pointed, expanding into blooms of enormous size. In shape it is similar to Madam Caroline Testout, but the color is a deep silvery rose. A wonderfully productive variety with fine stem and foliage. Price, each, 75 cents.

**Sunburst.** A grand new orange yellow rose which may well be regarded as the acme perfection in roses of this color. The plant is of strong vigorous growth, sending up strong stout canes heavily clothed with handsome foliage. Another good feature of this rose is the fact that the blooms are usually formed singly at the ends of the shoots. This allows a full sap flow to individual blooms and accounts for their large size. We have very few plants to offer this season, and these are only of medium size. Price, each, \$1.50.

**Rayon d'Or.** This superb novelty from France is unquestionably the yellowest of all yellow roses in cultivation today. It is the result of a cross between Madam Melanie Soupert and Soleil d'Or with the pre-potent pollen of the latter variety manifesting itself in the cross, in particular as applied to color and to the persistent briar-like mildew proof foliage. The color of this magnificent variety beggars description. The raiser describes it as deep cadmium yellow rayed with carmine scarlet on the outer back petals, and turning to pure even tone in the fully developed blooms. Suffice to say the yellow of this bloom is quite as intense as that seen in the ordinary sunflower of our gardens, and it holds its color until the flower is in a well advanced stage of development. We have only a few plants to offer this season. Price, each, \$1.50.

## Five Magnificent New Climbing Roses for 1913

# Ramona

### THE NEW RED CHEROKEE ROSE

ONE of the famous novels of modern literature and one in particular which found its setting under the sunny skies of California is Helen Hunt Jackson's "RAMONA"

As a memento to the authoress, we have taken the liberty of naming this entrancingly beautiful rose for her principal character. The book will be read and re-read by generations to come. We feel certain Ramona exemplified in the simple natural beauty of a rose will be perpetuated while the art of gardening lasts.

**Its history:** Several years ago there was introduced to England from Japan the now well-known Pink Cherokee Rose, "Rosa Sinica," variety "Anemone." It was introduced to California horticulture a few seasons past, and immediately leapt into popularity, forming as it did a distinct break from the usual form. From a plant of this variety, Anemone, a distinct and beautiful carmine crimson flower sported on a small branch; this occurred about four years ago. This branch was made into cuttings and the succeeding spring it flowered again, and came perfectly true to the original sport flower. Since that time the stock has been rapidly increased until at the present time it exceeds over one hundred thousand plants.

**Description:** The tri-color plate reproduced from an oil painting conveys a good idea of the size and color of this magnificent novelty. The color is one unusual in roses, rich carmine crimson overlaid with a lustrous sheen which is impossible of reproduction with the artist's brush. During the spring months the plants are literally covered with bloom. They flower as freely as the white or pink forms, and for covering fences, pergolas, buildings or trimming into hedge form this rose by sheer weight of its own beauty is destined to become a prominent part of our floricultural landscape. A prelude to its coming popularity is signified by the large wholesale orders booked for other nurserymen. These orders now extend into thousands. Prices as follows: Strong two-inch pot plants, each 35 cents; per dozen, \$3.50. Three-inch pots, each 50 cents; per dozen, \$5.00. Extra fine stock from five-inch pots, each \$1.00; per dozen, \$10.00.









**CLIMBING PINK COCHET.** Our own novelty. The addition of this superb climbing rose to the none too long list of good pink climbers is bound to fill a long felt want in the rose garden. There is but little use to enter into any great details in the matter of description, as this new variety is identical with the ordinary bush form of Maman Cochet, but with the added vigor of the climbing form. The individual buds and blooms are much larger than those noted in the ordinary bush type, in addition to which they are borne in much greater profusion. The foliage is heavy and leathery in texture, surpassing in this respect most climbing roses. Price, strong two-year old plants, each, \$1.50.

**Climbing White Cochet.** This superb variety is of Australian origin and like the foregoing pink form is the result of a sport from the bush form. It is quite as free in bloom as Climbing Kaiserin with buds and open blooms of splendid form and texture. Price, each, 75 cents.

**Climbing Liberty.** We have had this new climbing rose under test for the past three seasons and believe it is going to prove the best dark crimson climbing rose grown. One excellent feature of this rose and one wherein it differs from most other

red climbing roses, is its splendid adaptability as a cut flower. Its magnificent rich crimson buds and blooms are produced singly on the ends of the shoots, giving fully as good stem lengths as the best bush roses. The blooms are deliciously tea scented, very highly colored at all seasons, with an ultra-refined outline and texture. Price, each, \$1.00.

**Climbing Lady Ashtown.** A grand sport from the well known bush form of the same name, and which forms one of the most splendid additions to the list of climbing roses produced in many a day. The color is a superb deep silvery pink, a shade or two darker than that noted in the variety Madam Caroline Testout. It far surpasses the latter, however, in the exquisite form of its buds and blooms. The former are long and pointed and absolutely ideal as to shape. Like Climbing Liberty and Climbing Cochet it will prove its value as a cutting rose, aside from its value as a climber for pillars, pergolas, etc. It might be well to note that any climbing rose which produces good stems with buds of perfect shape is of especial value because of their stronger growth and the greater production of bloom which can be obtained from a single plant. Price, each, \$1.00.

## New or Scarce Varieties

**PRICE**—Strong two-year plants, each 75 cents, per dozen \$7.50, unless otherwise noted. This price also applies on balled plants for delivery after the period when they can no longer be handled in dormant condition, usually from April 15 on.

**Countess of Gosford.** (Sold out until May 15th.) A splendid rose of comparatively recent introduction, with long pointed buds and fairly full expanded blooms. Color, salmon, with pink shadings; base of petals yellow. A grand variety for cutting, with color which appeals to everyone.

**Colonel Leclerc.** A new introduction from a famous French rosarian, and one which we believe will find a place in every garden. It is a seedling from Madam Caroline Testout, with the same vigorous character of growth. Flowers large and well formed; deep rose pink in color. This variety proved one of the most beautiful of all the new roses we had on trial during the past season. It is one we can recommend to all our customers.

**Dorothy Page Roberts.** A grand novelty in every sense of the word, and one of the most vigorous growers in the entire section of Hybrid Tea Roses. It is distinctively a cut flower Rose, for it is at its best in the bud state. The buds are of magnificent size and form. Color, an entrancing shade of deep coppery pink.

**George C. Waud.** A very fragrant new red rose, with large full blooms and long high pointed buds. Foliage heavy and leathery in texture. A free-blooming, and in all respects a highly recommendable variety.

**Hector MacKenzie.** A fine new rose with large globular flowers. Delicious tea fragrance and splendid free blooming qualities. Color, rosy crimson.

**Jean Note.** A splendid addition to the list of yellows. It reminds one of Franz Deegen, but is several shades deeper in color; center of bloom chrome yellow, passing to creamy yellow in the outer petals. Flowers full and globular; constantly in bloom.

**LYON ROSE.** (New stock balled plants May 15th). Without any question the grandest introduction in roses for many years; an entirely new color, and combining all the good qualities to be sought for in a rose. It is a strong, vigorous grower, with every shoot crowned with magnificent blooms. In general form the bloom might be likened to a highly perfected Madam Caroline Testout, with a more double make up of flower. The color is simply superb, being a delightful shrimp pink shaded with coral pink, and gradually merging to deep golden yellow at the base of the petals.

Stock of this rose is exceedingly scarce, but we predict when it becomes well known it will be accorded first place in California rose gardens.

**Lady Ursula.** A good addition to the list of pink roses, and with us one of the rankest growers of all the Hybrid Teas. The buds are of beautiful form and substance, and are possessed of a highly marked Tea odor.

**Mrs. A. R. Waddell.** A lovely new color; deep reddish apricot toned with salmon. This Rose is not a perfectly double form, being rather after the style of Papa Gontier, but with much longer buds. It should be cut in the bud where used for cut flowers. It is a vigorous grower and constant bloomer, and incidentally a wonderful advance in Roses approaching this color.

**Mrs. Aaron Ward.** (Sold out until May 15th.) Deep rich Indian Yellow, occasionally tinted with salmon. A splendid novelty in every sense of the word. It is a constant bloomer, with buds and open bloom of most refined form and finish. For cut flowers it will fill a long felt want, as good yellows are scarce. Price, each, 75 cents.

**MAD. SEGOND WEBER.** (Sold out until May 15th.) A magnificent light rosy salmon bloom, with an ideal long pointed bud which expands to a flower of immense size. In its particular color there is nothing to touch it. It blooms with remarkable persistence, and it is unusual to see an imperfect bud or flower. As a cutting rose it is of premier quality; we cannot recommend it too highly. Price, each, 75 cents.

**Mme. Constant Soupert.** Deep rich yellow in the interior of the bloom, edged and shaded with peach pink in the outer portion of the petals; very double, with long handsome buds. Price, each, 75 cents.

**Mrs. Dudley Cross.** A fine type of bloom, fashioned in many respects after White Cochet. Creamy yellow in color. A strong vigorous grower. Price, each, 75 cents.

**My Maryland.** A grand American raised seedling from that veteran rose grower, Mr. John Cook, of Baltimore, Maryland, and representing one of the loveliest shades of intense pink to be found amongst roses. Its tone of color is so clean and decided that it catches the eye at once. Its beautiful color, coupled with its vigorous growth and elegant form, mark it as a rose of lasting popularity.

**Molly Sharmon Crawford.** A new Tea Rose of snowy whiteness and profuse blooming qualities. There is not much question that it is an advance in the Tea section, but we must confess we do not see the use of growing it, at any rate in Southern California or the western section of the United States, when such roses as Kaiserin are obtainable. It is to be understood,

*Mad. Legond Weber*

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however, that these remarks pertain to its quality and behavior under our own personal observation in this particular section. In cooler climates it may be perfection; here it is good in color, but lacks in form and substance. It is a new rose, however, and those who desire may give it a trial. Ordinarily we would not list it, but having repeated calls for same, we have done so.

**Pharisaer.** An introduction from Europe a few seasons ago, and a rose which, although as yet but little known, is going to find a place in all first class collections. Aside from its magnificent salmon pink color, it has one of the loveliest bud forms to be found amongst roses. Its exquisite shape, delicious odor and unsurpassed color will appeal to everyone capable of appreciating the beauty of a highly perfected modern type of the rose. We have only a limited stock to offer this spring. For summer any quantity running into the thousand.

**Rhea Reid.** This rose bids fair to be one of our finest crimson scarlet garden roses. It was at first supposed to be principally a greenhouse forcing variety, but whatever its value may be in this respect it certainly is a superb variety planted outside. It is a constant sheet of magnificent blooms, sending up fine, strong canes in great profusion. It is many shades darker

than Gen. McArthur, and has a far more beautiful bud. Price, each, 50 cents.

**Reine Karola de Saxe.** Lovely soft pink, well displayed in the full rounded blooms. It is a strong grower, with handsome leathery foliage; a grand rose for cutting purposes. The pearly pink tones of the flower are of exquisite effect.

**Souvenir of Stella Gray.** Deep orange splashed with crimson on the exterior of the bud; the interior of the flower tinted with salmon and apricot. This rose is by no means a large flower, but is nevertheless of surpassing beauty. It blooms with great freedom, and there is nothing more striking than a bunch of the cut buds; deliciously tea scented. A beautiful new combination of colors. Price, each, \$1.00.

**William Shean.** A new Dickson Rose with much the same type of bloom as Killarney, but with much larger buds, and if anything, stronger canes. We can confidently recommend this rose to every rose lover. It is worthy of a prominent position in the best gardens. A cut bunch of this variety might well be regarded as par excellence in roses, for the buds are perfection, the color exquisite, and the growth vigorous in the extreme.

## Recent Introductions of Superior Merit

Price, each 50 cents, per dozen \$5.00, unless otherwise noted.  
This price also applies on balled plants after the period during which they can no longer be handled in dormant condition.

**Betty.** A superb variety, with blooms of the most exquisite coloring imaginable; copper rose of lively tint, shaded with golden yellow at the base. The growth is strong and vigorous and well furnished with thick leathery foliage. Buds long and pointed.

**Elizabeth Barnes.** A superb new rose and one of the best late additions to the now popular salmon-rose colored section. The flowers are of exquisite form, with full high-pointed centers; possess a delicious odor and are superb, either in the bud or fully developed state. The color is a lovely satiny salmon-rose, with the reverse side of the petals several shades darker, bordering on coppery rose.

**Freiherr von Marschall.** (Balled plants May 15th.) Red Tea Roses of real merit are scarce at best, but we feel, from what we have observed of this variety during the past two years we have had it on trial, that this variety will fill a long-felt want. Color carmine, with long pointed buds; the open bloom of large globular form and great substance.

**Frau Karl Druschki.** One of the grandest hybrid perpetuals in existence. It produces very large snowy white blooms and is beautiful either in the bud or fully expanded state. In its full blown state the blooms greatly resemble a snow white paeony. They are of huge size, and as handsome as they are big.

**Florence Pemberton.** Another new rose of excellent quality. Flowers very full, showing exceptional size when fully open. Center high and pointed. Color silvery pink, deeper at the base of the petals. A grand variety in every sense.

**Gen. McArthur.** This magnificent rose has forged well to the front in the list of red roses. The color is a vivid crimson scarlet; flowers large and of the most beautiful form and texture. It is much freer in bloom than Liberty and does not mildew, as many other reds. Fine for cutting or bedding purposes. We regard it as one of the best of all red roses.

**Harry Kirk.** (Sold out; orders booked for summer delivery only.) A magnificent addition to the none-too-long list of yellow roses. The flower is of much the same form as the well known Killarney, but of a lovely deep sulphur yellow, becoming lighter at the edges of the petals. The buds are simply perfection in form. Petals very broad, smooth and rounded. Price, each, 75 cents.

**Hugh Dickson.** This magnificent rose received the Gold Medal of the National Rose Society of England, a much coveted but difficult award to obtain. We exhibited this rose last spring at the show of the Pasadena Gardeners' Association, where it elicited many expressions of admiration on account of its rich brilliant crimson color and intense fragrance.

**Joseph Hill.** (Sold out until May 15th.) A rose which is as yet but little known, and one of simply indescribable beauty. The interior of the bloom is an exquisite shade of golden copper, merging at the edges of the petals to salmon pink. It is a strong, vigorous grower, throwing heavy canes and an abundance of flowers, and buds of uniformly fine quality. In the young growth the foliage is a rich bronze; during the cooler autumn months the blooms often come pure copper. Deliciously scented, and of unsurpassed effect as a cut flower. Price, each, 75 cents.

**J. B. Clark.** One of the most vigorous growing of all red hybrid Tea Roses. We have had plenty of plants which threw canes six feet high. Color deep blackish crimson, with scarlet shadings. It is an especially fine fall bloomer. The foliage on the young growth is a beautiful rich bronze.

**MADAM LEON PAIN.** Lovely silvery pink, shaded with salmon. Buds much after the appearance of Prince Bulgarie, but showing a much more delicate color arrangement. Growth exceedingly vigorous. It produces lavish quantities of flowers throughout the entire season. We consider it an indispensable variety to any collection of roses.

**MADAM MELANIE SOUPERT.** For several seasons we grew this grand rose under the name of *Instituteur Sirdey*, and have hitherto sold it by this name. We recently discovered our error and desire to apprise our customers of the mistake in the nomenclature of the variety in question. There is one thing certain: If this rose had no name at all it would still be one of the grandest acquisitions to any collection. One of the most highly prized points in a good rose is a long pointed bud. We believe it would be difficult to find one which surpassed this exquisite variety. It is not only of the highest quality in this respect, but also in its lovely color, deep yellow toned with salmon. The open bloom has much the appearance of a semi-double paeony. When fully expanded it loses the deeper bud tints and becomes quite light. Price, each, 75 cents.



*Lady Hillingdon*

**Peace.** One of the loveliest of all Tea Roses. The color is a delightful lemon yellow; buds of medium length, expanding into a large broad petaled flower of great beauty. It is as free in production as Marie Van Houtte, and when better known will occupy a premier position among our leading Tea Roses. All who were fortunate enough to see our rose field at the height of the season last spring were enthusiastic over the beauty of this rose. Very vigorous.

**Ruhm der Gartenwelt.** An intensely fragrant hybrid perpetual from Germany. Color dark crimson. Flowers globular, large and full. It throws magnificent blooms, on the ends of strong, long canes. Especially fine in autumn and early spring.

**Wellesley.** A beautiful pink rose, one or two shades deeper than La France and much the same habit of growth, but of far more vigorous character. The petals are of satiny texture; blooms large and full.

**White Killarney.** A beautiful white sport from the well known Killarney; it is identical in every respect save color, which is a creamy white. Price, each, 50 cents.

## General Collection

### PRICES

Balled plants, from April 1 to November 1, extra fine stock, 50 cents each; \$5.00 per dozen. Dormant plants, from November 1 to April 1, largest stock selected, 35 cents each; \$3.50 per dozen.

NOTE: Between the dates last mentioned roses can be handled in a "dormant" or bare root condition without any loss whatever. During the growing season it is necessary to ball them; the increased cost of balling, sacking, etc., with the manifold increased weight of the plant handled by this latter method, necessitates the increase of price as noted.

**American Beauty.** Rosy crimson. The most popular of roses with cut flower buyers, but difficult to perfect without the aid of greenhouses. Throws fine large flowers in early fall and late spring, but at other seasons they cannot be relied upon to open perfectly.

**Black Prince.** Although this old rose is well known as a somewhat shy bloomer, no collection should be without it. It blooms freely during the spring and late autumn; at other seasons it is usually devoid of bloom. The magnificent blackish velvety crimson found in this variety has never been surpassed.

**Baby Rambler.** In referring to the blooming qualities of this rose, in so far as a California climate is concerned, it can be said without any exaggeration whatever that it will bloom every day in the year, and this fact, coupled with its very dwarf habit, makes it a very desirable bedding variety. The color is a soft rosy crimson, rather lighter at the center. Quite double, and with the flowers borne in elegant compact trusses. It never mildews, and the foliage is always a bright, glossy, green color.

**Clara Watson.** Blush pink. Free in growth and profuse in blooming qualities. Throws strong canes, clothed with heavy foliage. Indispensable where quantities of high class cut flowers are required, the buds being of elegant form.

**Captain Christy.** Flowers very large and a superb shade of flesh pink in color. Throws very strong and almost thornless canes. Very free in bloom for a hybrid.

**Franz Deegen.** A seedling from Kaiserin Augusta Victoria. Superb in form and beautiful in color. Deep orange yellow center, merging to cream in outer petals. Throws very strong well foliated canes, surmounted by flowers of glorious size.



**General Jacqueminot.** Velvety crimson, with scarlet shadings. An old stand-by, and always in demand on account of its fine color.

**Gruss an Teplitz.** The most profuse blooming, velvety crimson rose in existence, besides possessing an admirable constitution—a point lacking in most red roses. Has good, clean foliage and throws nice strong upright canes. A grand garden rose.

**Killarney.** A vigorous growing hybrid Tea of recent introduction, with so many good points in its favor that it has become a standard variety. Its long pointed buds, excellent substance and delicious odor recommend it to every lover of the rose. Color flesh pink, shaded with white and suffused pale pink.

**Kaiserin Augusta Victoria.** Grown all over the world wherever the rose is appreciated and cultivated for its beauty and fra-

grance. A rose which is as near perfection as could possibly be conceived. Ivory white in color, grand in form, free in growth and beautiful from the expanding bud until the petals drop.

**Lady Battersea.** A strikingly beautiful new rose, with long pointed buds of excellent form. Cherry crimson in color, becoming much darker in the fall and winter. Long, stiff stems, well clothed with handsome foliage. Very fine.

**La France.** Introduced in the early seventies and never surpassed in color. A glistening silvery pink. Grand in every way.

**Maman Cochet.** Ideal in form, perfect in color, vigorous in growth and well covered with handsome foliage. Deep rose pink, unsurpassed for lasting qualities and now grown by the thousands as a commercial cut flower.





**Madame Abel Chatenay.** Produces a mass of salmon pink blooms and is especially useful as a winter bloomer. Fine either in the bud or open state, and lasts a long time after being cut. A favorite with cut flower buyers.

**Mrs. Benjamin Cant.** A grand new variety of a beautiful carmine rose color, shading to salmon in the center. Growth extra strong, with fine leathery foliage. Bright, clean, and with us it never mildews. It will supplant Madame Lambard as a garden rose when better known. A prolific bloomer.

**Marie van Houtte.** Light lemon yellow, shading to rose and edged with carmine. An old-time favorite and always appreciated for its lovely combination of colors. Free in bloom and vigorous in growth.

**Madam Caroline Testout.** Satiny pink. Flowers cup-shaped and very fragrant. Free in bloom, strong in growth and should be included in every good collection.

**Madam Jean Dupuy.** A superb new rose. Remarkably vigorous in growth and covered from top to bottom with very heavy dark green shiny foliage. Color grand in the extreme; golden yellow center, shaded rosy yellow and broadly margined with rose.

**Marquis de Querhoent.** Contains all the high colors of copper salmon and golden yellow, beautifully blended. Produces very nice buds, which develop into a beautifully wavy bloom. Foliage good and growth all that could be desired. Very fine.

**Madam Cecil Brunner.** The most beautiful of all Polyantha or Baby Roses. Color bright salmon blush; very sweetly scented.

**Madam Gabriel Luizet.** The loveliest shade of pale pink to be found in roses is represented by this variety. Of pure even tone and well brought out in its large perfect blooms.

**Mrs. John Laing.** A variety of the hybrid class and one of the most deliciously fragrant roses in existence. A few flowers placed in a vase will scent a whole room. Besides its delicious odor, it is superb in color and elegant in form. Color soft pink.

**Mamie.** A lovely rose in every sense, with bright carmine rose colored blooms. Its growth is phenomenal, being somewhat after the manner of Paul Neyron. The flowers very large, beautifully formed and intensely fragrant.

**Paul Neyron.** The largest rose in cultivation. Flowers of enormous size, borne on long sturdy shoots, and usually one flower to the stem. Rich dark rose in color and very fragrant.





A CUSTOMER'S HEDGE OF CHEROKEE ROSES.

**Prince Camille de Rohan.** One of the best dark hybrid perpetual roses. Flowers intensely fragrant; color dark crimson maroon.

**Perle d'Or.** A facsimile of Madam Cecil Brunner in every respect save color—Nankeen yellow with a deep orange yellow center. One of the prettiest of small flowered polyantha roses.

**Papa Gontier.** A fine red rose, noted for its long buds. Especially useful as a winter bloomer.

**Perle von Godesburg.** A sport from Kaiserin with all the good points of its parent. Center of flower deep yellow, merging to cream in the outer portion of the petals.

**Prince of Bulgarie.** A recent introduction which has grown in favor, as it has many good points to recommend it. Petals very broad and heavy. In color a superb rosy flesh. Free blooming and a strong grower.

**President Carnot.** Throws very heavy canes, surmounted by flowers of large size. Color shell pink, shading to white. Unsurpassed in the light colored section.

**Rainbow.** A sport from Papa Gontier with very distinct stripes and pencilings of crimson on a pink ground.

**Souvenir de Pierre Notting.** A new rose with long pointed buds, which open a large, full, perfect flower. Color light yellow, edged with rose. A hybrid of Marechal Neil and Maman Cochet.

**Soleil d'Or.** A hybrid from Persian Yellow and contains the highest colors found in the family, all beautifully blended. Flowers are very large and globular, varying in color from gold and orange to reddish gold, shaded with nasturtium red.

**Sombreuil.** A grand garden rose. In bloom all the time and producing uniformly fine buds and perfect flowers. Color white, suffused rose. Very vigorous grower.

**Ulrich Brunner.** Rich cherry crimson. Flowers very large and produced on long solitary stems. Far better in color than American Beauty, in addition to which all the buds and flowers come good when grown outside, no glass being necessary to do it well. Grand in early and late fall.

**White Maman Cochet.** An American sport from Maman Cochet, with all the good qualities of its parent and identical with it save in color, which is pure white, daintily edged with pink.

**Xavier Olibo.** Intensely rich velvety crimson. Like other hybrid perpetuals it produces its main crop of bloom in spring.

## Climbing Roses

See also page 4 under novelties.

Prices same as preceding section of Bush Roses.

**Climbing Wooton.** A superb climbing rose, vigorous in growth, fine in foliage. Color velvety crimson. Petals thick and leathery. A valuable acquisition to the list of red climbers, which is none too large.

**PINK CHEROKEE.** A grand climbing rose of rare beauty and undoubted merit, and without question the finest addition to the climbing section in many years. The lovely single blossoms are produced in the same profusion as in the white variety, while the color is a most delightful shade of blush pink. The flowers, if anything, are larger than those of the white Cherokee, and are deliciously fragrant. The growth is rampant to a degree, and when covered with bloom in the spring it arrests attention at once. We have a fine stock of sturdy, vigorous plants, in five-inch pots. Price each 50 cents; per dozen \$5.00. Strong young plants from three-inch pots, each 25c.

**SINGLE CHEROKEE.** Grown in quantities throughout California, and is invaluable for hiding unsightly barns, fences, etc. Produces great masses of waxy-white single flowers, with a conspicuous bunch of yellow stamens in the center. Foliage shining green and good at all times of the year.

A splendid effect may be produced by using it for a hedge, alternating it with the old Ragged Robbin (Gloire de Rosemanes), or it can be planted alone. Where used for hedges, it is necessary to erect a fence of mesh wire or other suitable material of the desired height. After the shoots reach the top pinch them out; it will soon make a mass of short, jointed growths, which can be trimmed with hedge shears, and thus be kept in bounds. A hedge of Cherokee Roses is charmingly bright and fresh appearing, and in spring a mass of white flowers. See cut. Five-inch pots, each 35 cents.

**Climbing Madame Cecil Brunner.** Owing to the unusual merits of this rose we have propagated an immense stock, and can supply almost any quantity. The blooms have the same exquisite shape as Mme. Cecil Brunner and are identical in color but more freely produced and in larger trusses. Extremely vigorous. We can recommend this variety to every one.

**Climbing Papa Gontier.** The sports which have resulted in climbing forms to many of our best standard roses have been numerous, but we doubt if, with the exception of Climbing Kaiserin and Climbing Testout, there are any equal to this lovely climbing form of the old Papa Gontier. The buds are of the same elegant pointed form and color, coupled with a wonderful freedom of production.

**Duchess de Auerstadt.** A scarce and but little known climbing rose, with large, full, globular blooms. Deep rich yellow in color and superb in form and size. It is as fine a flower in its particular shade as M. Neil, besides being a stronger grower.

**Française Crousse.** This new rose fills a long-felt want in high-colored climbers, as the buds are quite as dark and velvety in texture as Liberty, in addition to which they are produced in wonderful profusion.

**Gloire de Dijon.** Distinct in color from any other climbing rose. Apricot, shaded with rose and salmon. The colors are beautifully blended.

**Gloire de Margottin.** A handsome climbing red rose, many shades deeper than the well known Henrietta. It is a fine companion to La Marque by way of color contrast. Vigorous growth, with fine heavy foliage.

**La Marque.** Well known as one of the finest white varieties in cultivation. A remarkably profuse bloomer. Fine in bud state as a cut flower.

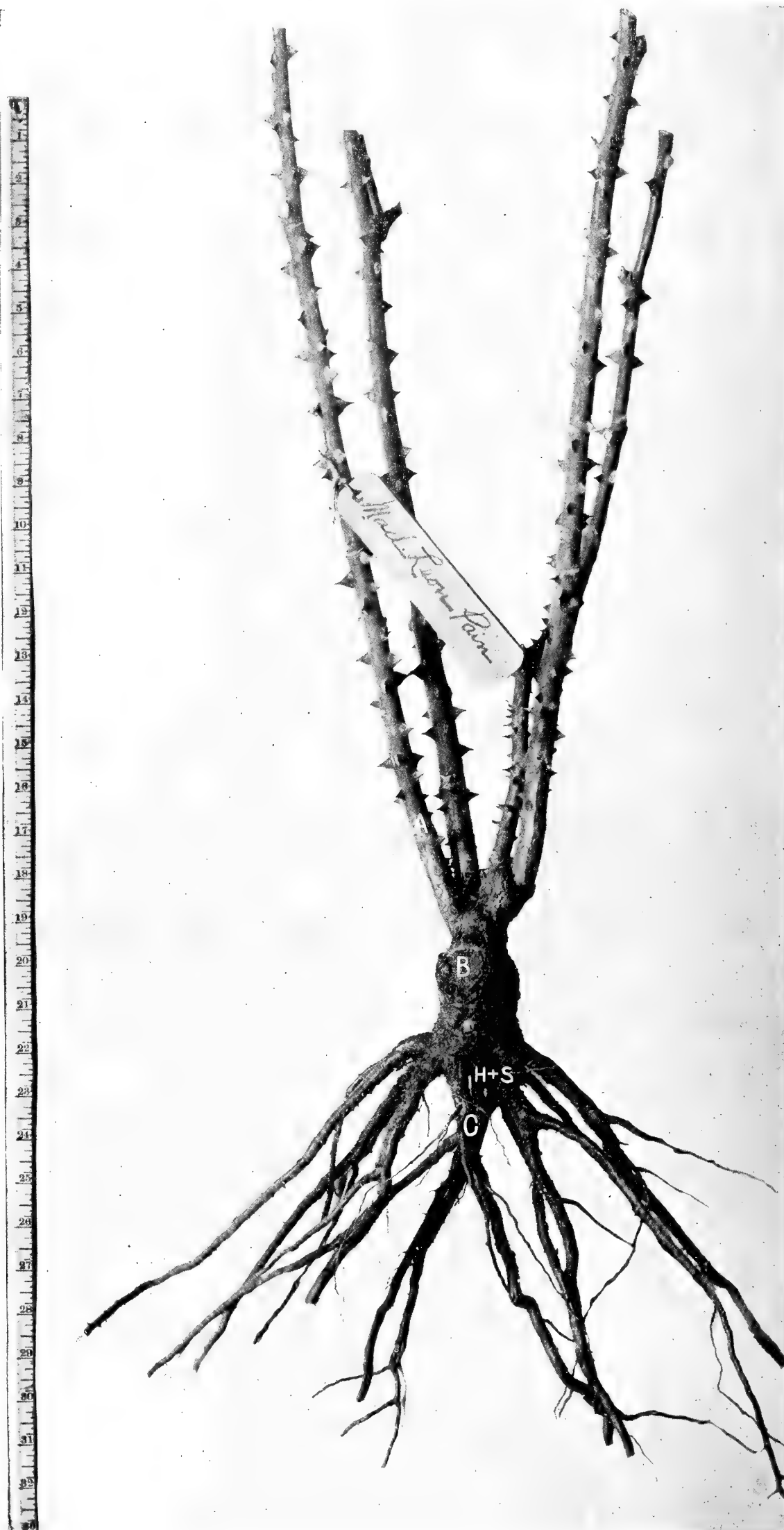
**Madame Driout.** A remarkable new climbing rose, obtained as a sport from Henrietta in the grounds of M. Braunt, Poitiers, France. In growth, foliage and general characteristics it is precisely like its parent, but in color it differs entirely. The flower is a magnificent rich rose color, heavily striped with cherry red; for distinctive markings it surpasses any other rose, bush or climber.

**Marechal Neil.** This is one of the best and generally known climbing roses in existence. Produces very large and deliciously fragrant golden yellow blooms. The opening buds are ideal in form and expand to full and globular blooms.

**Queen Olga of Wurtemberg.** An old climbing red rose, with extra large semi-double blooms. The color is much the same as Henrietta. A fine thing for covering pergolas, fences, etc., as the growth is very vigorous.

**Reve d'Or.** Unique in shades of buff and apricot; similar in form to the La Marque. One of the best climbing roses in cultivation and always in demand. During the spring and summer months the plants are smothered with blooms.

**Reine Marie Henrietta.** One of the finest red climbing roses. Flowers are very large, bright cherry red in color and abundantly produced.





**CULTURAL NOTE:** We fully realize the difficulty of giving a thorough detail of the management of the rose garden and the treatment which would be accorded them in the necessarily limited space we have at our disposal, but we will attempt a concise resume of the principal matters concerning:—

**SITUATION OF BEDS.** Roses give the best results in a fully exposed sunny situation, where free circulation of air is assured, and if possible, well removed from any buildings. It is inadvisable to plant them in even partial shade, as the lack of sunlight induces leaf mildew in dull spring weather.

**SOIL.** Much has been said regarding the soil best adapted to roses, but our experience has been that they will do well in almost any good, rich land, with a strong preference to soils of a heavy nature, such as our ordinary heavy adobe, or the stiff reddish loams which abound in all parts of California. However, in certain localities they grow luxuriantly in sandy loams, or even in soils of a gravelly nature. We are inclined to believe that the principal point necessary to attain their highest development lies in the preparation of the soil.

**PREPARATION AND PLANTING.** Given that a suitable plot has been selected, we now come to the main essentials for success. The soil should be trenched or spaded over to a depth of eighteen inches, breaking all lumps, removing all stones, etc. With this operation complete, level the surface and spread over it three to four inches of rotted manure; spade this in thoroughly, and when completed rake the bed to final grade. Measure the points plants are to be placed, and insert a stake at each of these places. Dig a hole at the points designated, eighteen inches wide by two feet deep; place in the bottom ten inches of well rotted manure, tread this firmly. On top of this put six inches of clear soil containing no manure whatever; tread again to firm the layer of soil on the manure. We are now ready for planting.

If the roses are in a dormant or bare root condition, place them in the hole and carefully spread out the roots in as near a natural position as possible, gradually filling in with fresh soil containing no manure whatever. When completely filled, tread the soil around the plants as firmly as possible, basin up and water thoroughly. If balled plants are used, prepare holes in the same way, place in hole, cut strings at collar of plant, lay burlap back without removing, fill up and tread firmly. The burlap rots away quickly, and by leaving it there is no danger of breaking in the ball.

**DEPTH OF PLANTING.** The illustration on page 12 shows a strong two-year-old budded rose bush. (B) denotes the point of insertion of the bud; (A) the depth the plant should be set in the soil; (C) indicates the splendid root action of this class of plants. The tape measure to the left of the cut shows the point (A) to be about four inches above point (B). This is approximately the proper depth for planting.

**WATERING.** With the exception of an occasional syringing to cleanse the foliage of dust, roses should have little or no water overhead. Slow irrigation by means of shallow trenches running along the rows is the best method; this puts the water where it belongs, at the roots. A thorough wetting and subsequent cultivation every two weeks during the growing period is sufficient, though it is almost impossible to make any hard and fast rule as at times the heat and consequent evaporation is greater than at others. See that the soil is constantly moist during the flowering period. A mulch of half rotted manure will check evaporation and reduce the amount of water required. Water, mixed with common sense, and a well prepared bed to back it up, will grow magnificent roses in California.

**DORMANT PERIOD.** In this climate roses should have two periods of rest, the first from the 15th of November to the 1st of March, and the second from July 1 to September 15. In the period first named roses

become perfectly dormant through the action of the cold weather; in the second instance this condition should be brought about by absolutely withholding water for the period named. To force them for winter blooming is quite possible, but to do so must be at the sacrifice of the magnificent show of perfect blooms that follow on a plant which has been accorded its natural rest. To force them during the heat of summer is productive of the same disastrous results in the fall.

**PRUNING.** The principal pruning should be done while the plants are quite dormant, say, during the month of January. It is difficult to give full data in this matter, but it might be summed up as follows:

Remove all small twiggy growth, pruning back to strong, well ripened canes which are well furnished with healthy, big dormant eyes. As a general thing the entire top of the plant should be removed. It is immaterial whether any foliage be left or not. The engraving shows a properly pruned Hybrid Tea, two year old plant. This method is the best for roses of this class, and applies equally well for hybrid perpetuals, such as Ulrich Brunner, Paul Neyron, etc., with the exception that the canes may be shortened to eighteen inches.

The second time of pruning is just after the summer rest, September 15. Head them in then, but not so severely as in the winter.

**MANURES.** Roses are gross feeders, and answer well to liberal treatment. The best time for heavy manuring is in the winter after they are cut back. Well rotted cow or horse manure spread over the bed two or three inches thick, and spaded in, forms some of the best fertilizers. Sheep manure is also good, but being a powerful stimulant, care must be used not to burn the plant.

The various commercial fertilizers, such as blood and bone, are also good; use care, however, to follow directions in using these. A good mulch once or twice a year is also beneficial.

**INSECTS AND DISEASES.** Roses are afflicted with various diseases, pests, etc., but we will only treat of the two which give the most trouble, and these are Aphis, or green fly, and mildew. For the first use a strong solution of tobacco water or Phytophiline, administering on a quiet evening with a spray pump. For the second, take two ounces of slacked lime, mix with one pound of sulphur, place in a pot, add two gallons of water; boil for three or four minutes. The sulphur, insoluble in water, enters into solution through the action of the lime, forming a sulphurous solution. When cold, dilute this one part to five parts water and spray affected plants thoroughly. It is very effective.

**CLOSING NOTE:** The roses we offer are, with few exceptions budded—worked low down on various stocks for which we have found by exhaustive experiments, they show an affinity.

Some growers of own root stock declare that budded roses sucker from the wild stock, etc. We have only to say: This is ignorance. Our stocks are specially prepared for budding. They do not sucker; they produce stronger and better plants than any own root stock possible could.

It costs far more to produce our stock by this method than to grow own root plants, requiring full two years before a plant is ready for market with its heavy well ripened canes, as against a plant grown from a soft wooded cutting in the fall, planted out in the spring and forced into a sappy growth by the excessive use of water during the entire summer and fall; dug in December with long canes as pithy as cotton on the interior, and if planted at all late, with a high percentage of loss to follow.

A remarkable fact which should settle a question of which we are unable to go into detail in this limited space, is the fact that the leading Rose Growers of the United States, England, France, Germany and Ireland grow budded stocks.

Why should they do so when it is so much cheaper and easier the other way? The answer is simple, and can be expressed in the one word—Quality.

# The Carnation

THE refined form, the exquisite fragrance and free blooming qualities of the Carnation place it in a position, which in popular favor is second only to the rose. They can be grown with ease in any garden with the simplest methods of culture; they bloom almost without intermission through the year, furnishing at all times a bountiful supply of fragrant bloom.

## Novelties for 1913

The following set of new carnations mark a distinct advance in this favorite flower. They are the result of a series of crosses made at our Montebello trial grounds, between the hardy outdoor Redondo strain, of which Corbett, Los Angeles and Allegría, etc., are well known types, and the generally under-glass or greenhouse grown varieties such as Enchantress, Mrs. Thomas W. Lawson, etc. The remarkable feature of these new seedlings is their enormous size, splendid stem and calyx, and intense clove-like fragrance. The flower stems attain a length of two feet and over, and are surmounted with blooms which attain a diameter of three to three and one-half inches. Anyone possessing a fairly good garden soil may now have carnations grown in the open border which will produce blooms equal in size to the largest greenhouse varieties. We have only a limited stock for distribution this season.

Price of any of the following varieties, strong plants in 2-inch pots, each 15 cents; per dozen \$1.50.

### Special Offer

One plant of each of the seven varieties for 75 cents.

**FLORA.** (See Cut.) An enormous sized light scarlet, blooms attaining a diameter of three inches and over.

**E. K. HARVEY.** A splendid pure white overlaid with pink.

**FLORENCE McPHEE.** A handsome bright salmon pink.

**ALACEBA.** Pure white. Immense in size and intensely fragrant.

**BEATRICE MAYBERRY.** Rich bright rose pink; a great advance in this color.

**ADMIRATION.** Similar in general character to Prosperity, but larger and with stiffer stems. Strongly clove scented.

**PURITY.** Another fine white similar to Alaceba in general outline. Very large.

## General Collection

**Apple Blossom.** (New). A lovely new Carnation which originated at our Montebello nurseries, and we doubt if a more delicate shade exists. The color is a delicate light pink. Flowers beautifully fringed and of large size. Extra good for winter blooming. Per dozen \$1.00.

**Corbett.** A strong grower with extra long stems and large salmon pink blooms. Intensely fragrant and deeply fringed. It blooms nearly all the year round and produces uniformly good sized flowers.

**Eldorado.** Yellow, penciled with scarlet. Like most yellow Carnations, it is somewhat weak in growth, but it has a little better constitution than most varieties of its color. A beautiful buttonhole flower.

**Enchantress.** The largest flowered Carnation grown. It is nothing unusual to see the blooms  $3\frac{1}{2}$  inches in diameter, although to attain this size the shoots must be disbudded. Color an exquisite shade of day-break pink.

**Estelle.** The best of all deep scarlet Carnations. Of large size, perfect calyx and form, and possessing a delightful clove fragrance.

**FRED H. HOWARD.** This variety is undoubtedly best outdoor Scarlet Carnation yet introduced. The flowers are very large, brilliant scarlet in color, perfect in calyx, stems of great length, and deliciously fragrant. If the stems are disbudded to a single flower, and liberal culture provided them, three-inch blooms can be grown in the open garden.

Strong plants from 2-inch pots, each 15 cents; per dozen \$1.50.

**John Carbone.** A California seedling and one of the grandest fancy varieties in cultivation. Color deep, rich golden yellow, broadly flaked with carmine. An abundant and constant bloomer. Extra good.





**Los Angeles.** The best white of the well known Redondo strain. Growth compact and bushy; stems long and wiry, surmounted with large, nicely fringed and strongly clove scented blooms.

**Mrs. Thos. Lawson.** A famous and much advertised variety, and one which marked a new era in the improvement of the Carnation. The parent of nearly all the best recent introductions and still unsurpassed in size and vigor. Deep cerise pink in color, and when well grown from 3½ to 4 inches in diameter. Shows up beautifully under artificial light. Requires disbudding and shading from full sun to bring it to full perfection.

**White Enchantress.** A magnificent pure white sport from that popular variety Enchantress. Alike in all respects to its parent save in color.

**Roosevelt.** A good sized bloom of the richest velvety crimson it is possible to produce. It is free in bloom and, although

quite double, it rarely bursts its calyx. Nothing finer in this shade.

**PRICE**—Fine, strong plants from 2½-inch pots, of any of the above varieties, 10 cents each, 75 cents per dozen, unless otherwise noted.

Field grown plants, especially grown for winter blooming, extra strong, 20 cents each, \$2.00 per dozen; large, 30 cents each, \$3.00 per dozen. Ready in September.

**CULTURAL NOTE:** Carnations prefer a deep loamy soil which has been well enriched with rotted manure. The positions for the beds should be in full sun away from buildings where the refracted sun's rays burn and destroy the beauty of the flowers. Plant in rows two and one-half feet apart, with the plants fifteen inches apart in the row. This arrangement allows for liberal cultivation and of irrigation by small trenches along both sides of the row. They do far better under this system of watering than when sprinkled; the flowers do not become spotted and the plants grow vigorously.

To obtain the largest sized blooms, remove when quite small all the lateral buds, leaving only the terminal. This takes the entire sap flow of the stem and results in much finer blooms.

# The Chrysanthemum

**O**UR collection of these favorite autumn flowering plants is representative of the best varieties placed in commerce in recent years. The sets of recent introduction are of sterling quality and show decided advances in the way of form, size and color.

By carefully following the instructions contained in the cultural note, blooms of splendid quality can be produced. It should be borne in mind, however, that the old maxim: "That which is worth doing at all is worth doing well," is particularly applicable to the cultivation of chrysanthemums. It is one unceasing round of attention from the time planted until their huge fluffy blossoms appear in the fall. The pleasure obtained in having produced flowers of fine quality more than offsets the labor involved. Plants ready for delivery by April 15th.

## Recent Introductions of Superior Merit

Price, each, 20 cents; per dozen, \$2.00.

**ALICE LEMON.** A superb novelty from the celebrated Australian grower, Mr. Pockett, from whom so many of the best novelties in recent years have come.

A grand pink of much the same tone seen in the Carnation Enchantress. Size enormous; form reflexed and spreading.

**BUISSON FLEURI.** A giant incurved bronze and crimson, in strongly contrasting tones. One of the finest varieties of this type in our collection.

**BEN WELLS.** An immense exhibition, white. Dwarf in growth. A fine thing in every way.

**DONATELLO.** (New 1910.) Bright yellow. Ball shaped; of great substance. Foliage and stems extra good.

**DECEMBER GOLD.** This will fill the demand for a very late yellow. It comes into full perfection during the month of November. Very large, perfectly formed, and a grand golden yellow color.

**FRANK PAYNE.** A large flowered lavender pink. The form is somewhat flat and spreading.

**GLENVIEW.** One of the largest of all incurving varieties, with plant of dwarf habit, and fine stiff stems. Color, dark bronze and clear red. Finishes a perfect globe.

**GEORGE W. POOK.** Salmon terracotta. Most unusual color, and quite distinct from all others.

**HAROLD WELLS.** A superb exhibition bloom of snowy whiteness. It is immense in size, but not inclined to coarseness, the developed bloom being finely finished.

**LADY HOPETOUN.** One of the best light pinks.

**MARY DONNELLAN.** A broad petaled, golden yellow. Japanese incurved.

**MRS. DAVID SYME.** A grand new pure white, and one of the largest of all white varieties. Extra fine.

**MRS. J. A. MILLER.** An extra good bronze; blooms wide and deep.

**MRS. H. STEVENS.** A beautifully formed bloom. Color, golden bronze. Large, and of good substance.

**MRS. L. THORN.** A loosely incurved yellow. When fully developed the petals form a perfect globe.

**MRS. O. H. KAHN.** A fine deep bronze. The plant is of dwarf even growth. Flowers of excellent form.

**NACEUR BEY.** Deep yellow, striped with red. Incurved.

**POCKETT'S SURPRISE.** Undoubtedly the finest crimson Mum extant. It holds its color well in full sun, but as with all varieties of its color, the tone is much deeper and richer if shaded after the buds begin to expand. This variety has numerous certificates to its credit, both in England and America. A prize winner everywhere.

**PRESIDENT TAFT.** A very large Japanese incurved, which builds up into a ball of purest white. This variety is recognized as a very profitable variety by commercial growers, which speaks well of its merits.

**REGINALD VALLIS.** A tall growing variety, with large plum colored blooms. The petals are loosely reflexed. When full grown the flowers are of enormous size.

**R. F. FELTON.** A grand mid-season variety, deep rich yellow in color. Height medium; foliage and stem extra good.

**ROSE POCKETT.** A mammoth incurved, in some of the duller tints of gold and yellow. Blooms on the exhibition stand attract attention at once. Should be in every collection.

**THANKSGIVING QUEEN.** A new sort which may be regarded as a vast improvement over that old favorite, Silver Queen. The color is creamy white. The flowers are large and double to the center. One of the best late varieties.

**WELLS LATE PINK.** Fine by November 1st, and later. Color, first class. Stem and foliage good.

**YELLOW OCTOBER FROST.** An early yellow which attains perfection during the month of October. Requires shading in this climate.

## General Collection

### Japanese Types

A choice collection of the very best of the older standard varieties to color. Price each 10 cents; per dozen \$1.00.

Plants ready for delivery April 15th.

#### WHITE

**Jeannie Nonin.** A magnificent globular bloom with regular incurving petals. When fully developed it is as round as a ball and white as driven snow. A fine keeper, with sturdy stems and heavy dark green foliage.

**Lynwood Hall.** A magnificent new white of the largest size, incurved in form and excellent in texture and build. A fine cut flower variety.

**Madame Diederichs.** An enormous Japanese type with most of its petals incurved. Creamy white in color, very distinct and easy to grow.

**Madam Simon Jossier.** Another of the new French varieties, and without any doubt one of the grandest of all. It shows a marked advance over the whites of former years and may be classed with such fine things as Jeannie Nonin, etc. The blooms are of the largest exhibition size, creamy white in color and carried on thick stiff stems. A gem in every sense.

**Nellie Pockett.** A superb variety from Australia and regarded as the highest and most refined type it is possible to produce. Petals very long, drooping and interlaced; of great depth and breadth.

#### YELLOW

**A. Scalarandis.** In our trials of chrysanthemums in autumn of 1911 we were particularly pleased with this grand variety. Its excellent dwarf habit, bright golden yellow flowers and heavy overlapping foliage produce an effect which is beautiful in the extreme.

**Colonel Appleton.** A prizewinner wherever shown. Flowers enormous in size, golden yellow in color. In the east a standard variety for market work. Keeping qualities the best. Unsurpassed at mid-season.

**Etoile du Nord.** In our field trials during the past season this variety stood out pre-eminently as the richest yellow in the collection. It does finely in full sun and produces blooms which are marvels of beauty. The form and general make-up of bloom leaves nothing to be desired. Stems clothed with heavy dark green foliage right up to the flowers.

**Major Bonaffon.** This splendid sort, although introduced many years ago, still holds its own as one of the finest incurved yellows. It is largely grown as a commercial variety, being still regarded as one of the best formally incurved types.

**M. Pechon.** An enormous incurved golden yellow. Petals of medium width. Blooms very double and carried on very high stems. Quite distinct in form from all other yellows in the set.

**Mrs. Wm. Duckham.** A superb golden yellow of reflexed form. In well-grown specimens the flowers show great depth, displaying to great advantage their elegant coloring. Very fine indeed.

#### PINK

**M. Loisseau Rousseau.** A beautiful deep pink, incurved, with splendid foliage and strong stems. Flowers massive in build. Its elegant color makes it especially desirable for cut flowers.

**Mary Mann.** Bright rosy pink, with broad channeled petals. Excellent in form and substance. Like its parent, Marie Liger, it is of dwarf sturdy habit.

**Marquis de Pierres.** A fine pink, with many good points to recommend it. It reaches perfection about October 15.

**Miss M. Hankey.** Mauve pink in color, with flowers of enormous size. Stems clothed with handsome heavy foliage. Extra good.

**Miss Lucy Evans.** Beautiful shade of heliotrope pink. Center petals incurved, outer petals reflexed, making up a flower of great depth and beautiful form.

**Mlle. J. Rosette.** One of the finest varieties extant, combining enormous size, unique form and grand coloring. Flowers double to the center and composed of narrow quilled petals. Color a most delicate shade of pearly pink. Late.

#### RED

**Amateur Conseil.** A fine addition to our list of reds, somewhat lighter in color than Black Hawk, but much larger and finer. Blooms reflexed and twisted. Shaded from the sun when buds are expanding, it brings a very deep velvety crimson flower. Extra fine.

**Black Hawk.** The darkest chrysanthemum extant; when well grown it produces a good, medium sized bloom of the darkest shade of crimson it is possible to imagine.

**Bruant.** A reddish bronze, incurved, of large size. A fine exhibition bloom.

**Edgar Sanders.** A fine bronze reverse lighter. Comes very large. Good stiff neck and heavy foliage.

**Matchless.** A deep rich crimson of velvety texture and one of the largest reds grown. To bring the color to perfection it should be shaded after the petals begin to develop.

**Maynell.** A fine large flowered red, with very broad petals. Like all other reds it should be shaded during the flowering period, or there is a tendency to fade and become lustreless.

#### PURPLE

**Colonel Baden Powell.** Light purple in color. Large in size. Strong in growth, with exceptionally heavy, leathery foliage.

**Mme. A. Marmotel.** An enormous exhibition variety. Perfectly double flowers. Petals rather narrow and gracefully incurved. Color rosy purple.

**T. Carrington.** Rosy purple with silvery reverse. Good foliage. fine stem and very large bloom.

## Anemone Flowered Chrysanthemums

The blooms of this elegant class are of medium size, with a cushiony-like center, surrounded by a series of flat guard petals. They resemble in large measure some types of asters, and are unsurpassed for cut flowers. We offer five fine sorts. Price, each, 15 cents; per dozen, \$1.50.

**Katherine Simmons.** Soft pink guard petals. Center yellow.

**Mrs. F. Gordon Dexter.** Center pink; ray petals two rows, white.

**Miss Ida Kroeschell.** Light yellow petals, with the center a deeper shade.

**SATISFACTO.** Old gold and yellow throughout the entire bloom. Very fine.

**Surprise.** Deep rose pink. One of the best of this shade.

## Single Flowered Chrysanthemums

For cut sprays these are unexcelled in grace and beauty, and are finding much popular favor. The following are all good sorts.

Price, each, 15 cents; per dozen, \$1.50.

**Arlee.** (New.) A splendid shade of golden amber.

**C. Livingstone.** (New.) Large flowered; lavender pink.

**Kate Covell.** A grand maroon shade.

**LADY LU.** (See cut.) A superb white.

**Little Barbee.** Bright canary yellow.

**Minnesota.** Deep blood red. Extra fine.





COL. APPLETON.

**CULTURAL NOTE:** Preparation of Beds. Where it is desired to produce exhibition blooms of the largest size, it is advisable to begin operations early in the season. The beds in which they are to be grown should be spaded over to a depth of fifteen inches, and have a liberal dressing of well rotted manure thoroughly worked through the soil. Begin the work of getting ready a month in advance of the planting time, putting on the manure after the first breaking up of the bed; give a thorough soaking when this is done, and when sufficiently dry turn over again.

This procedure thoroughly incorporates the manure and sweetens the soil, which is a factor of great importance in the production of fine blooms.

**ARRANGEMENT OF BEDS.** The best width for a bed is three feet, with a length to suit the requirements of the garden. A path two and one-half feet wide between the plots is advisable. Rake the beds to perfect grade, and construct a narrow ridge five inches high along the sides and end. With this done, we have what is practically a basin for the plants.

**PLANTING.** With the beds prepared as above noted, draw two lines from end to end, ten inches from the ridges at the sides; this leaves the lines sixteen inches apart through the middle of the bed. Along those lines insert the plants one foot apart.

Planting may be done any time from April 1 to June 15. As a rule, however, the early plants give the best results.

**WATERING.** If the beds are prepared as noted above, there is practically a basin to hold the water. Of this chrysanthemums require plenty, and it should be administered by flooding the bed; lack of water causes hard stems and consequent poor blossoms. There is more danger of too little rather than too much water in our dry climate.

Aim to keep the plants growing freely at all times. Keep the beds moist without being soggy.

**STAKING.** As soon as the plants are set out, insert a stout post at each end of the row, and thoroughly brace them. Between these posts and along the row of plants stretch strong light wires; the first, one foot above the ground, and others to the number of four, one foot apart above the first. At every five feet between the end posts drive a one by two inch by six foot stake, and staple the wires to same at the point they cross. This wire and wood framework should be five feet high; the end posts seven feet long, with two feet buried in the ground to sustain the tension of the wire. With the intermediate posts one foot in the ground is sufficient. As the plants grow during the season, carefully tie them with raffia to the wires.

By arranging the plants in long, narrow beds and supporting as above, they are easy to get at for disbudding, cultivation, etc., and high winds are not liable to break them off.

**PINCHING.** If allowed to grow unchecked, the plants would reach a height of several feet by fall. To keep them in bounds they should be cut back once or twice during the summer, but not later than August 10. Early set plants may be stopped in June and again in August. For late planted stock one pinching back will suffice.

Assuming that the plants have been pinched back to eighteen inches in August, an abundance of young shoots will start at once; when these have attained a length of three to four inches select four or five of the strongest and remove the balance.

It is to be remembered that each of the shoots left is to be the flower stem crowned with a large single bloom in the fall. If more and smaller blooms are desired, more shoots may be left, but the blooms will not have the size or quality where fewer are selected. As the new shoots grow very rapidly, keep them well tied up, removing all new side shoots which may appear in the axils of the leaves. By October these shoots should be nearly four feet high and ready for the final operation.

**DISBUDDING.** We have here an operation upon which depends the success of the crop, and one in which the good judgment of the grower is constantly called upon.



SINGLE CHRYSANTHEMUM, LADY LU.

In warm seasons the buds, especially the early varieties, often make their appearance by September 1. As soon as they are large enough to handle, select the strongest and remove the balance. It is not always advisable, however, to leave the large one at the terminus of the shoot; this often brings a coarse bloom, and too early. A second bud lower down, although of smaller size, will produce an equally large bloom, but later in the season. After the bud has been selected, keep all side growths pinched out, the idea being to divert the entire flow of sap to the one bud.

**MANURES.** Chrysanthemums are gross feeders. A liberal mulch of well-rotted manure every two or three months during the growing period aids greatly in the production of fine foliage, heavy stems and large blooms; it checks the evaporation and keeps the soil cool and moist.

Commercial fertilizers, such as bonemeal or blood and bone, are useful in accelerating the growth, but care must be used not to overdo; an ounce or two to the plant dusted over the soil and raked in every two or three weeks during the summer is sufficient. An overdose will destroy the root action.

Discontinue all solid forms of fertilizer when the buds appear, giving only manure in liquid form; stop this when the petals begin to appear, using water only.

# The Dahlia

**A**MONG summer and autumn flowering plants there is no subject in the plant line that affords a greater amount of satisfaction to the grower, or produces a finer display for a continuous period, than the Dahlia. It has long been a leading specialty with us, and we have spared neither pains nor expense in bringing together and testing out the magnificent collection we offer below.

The introduction from Mexico in the early eighties of the original Cactus Dahlia Jaurezi served as the foundation for the creation of the new race known as the cactus class.

The numerous and graceful forms and rich and varied colors, for which this section of the Dahlia is noted, gave the flower a world-wide spread of popularity, even beyond the keenest expectations of its most enthusiastic admirers.

Within the last few years the new Paeony flowered race made its appearance. These are a great advance over the old-fashioned singles in point of size, gracefulness of form, and in value as cut flowers. There is nothing more beautiful than a vase of their gigantic blooms. They lend themselves to decorative work of any kind, and produce a splendid show of color in the garden.

Our collection has been carefully revised from year to year—inferior sorts were discarded and better and improved varieties substituted; and we feel certain the sets offered are as good as it is possible to obtain.

We desire to call our customers' attention to the magnificent set of novelties which we are introducing this season. We firmly believe they are one of the choicest collections ever offered to the public. During the past few years we have raised many thousands of hybrid seedling Dahlias, with the end in view of obtaining new forms and better types of bloom. The varieties offered are the cream of these seedlings. We have given them exhaustive trials to test their qualities, and feel certain they will please the most exacting fancier.



FIELD OF DAHLIAS IN BLOOM AT MONTEBELLO.

## New and Scarce Cactus Dahlias for the Season 1913

Price of any of the following: each, 35 cents; per dozen, \$3.50.

### SPECIAL OFFER

One strong root of each of the fourteen varieties for \$3.75.

**CONTRAST.** (See Cut.) Engraving on page 21 will serve to give a fair idea of the form of this striking novelty. It belongs to the Decorative Cactus section, and is unquestionably one of the grandest fancy or bi-colored varieties ever produced. The flowers are an intense crimson scarlet beautifully tipped pure white. A feature of this variety wherein it differs from most other fancy types, is the fact that it rarely sports as to color, being quite uniform at all seasons in its markings.

**CURIOSITY.** A handsome and distinct fancy Cactus Dahlia of incurved form. The ground color is pure white with all the petals penciled with deep purple.

**ELLA.** A late blooming variety with very large blooms. The petals are bifurcate at the end similar to those in Lady Fair. Color rich rose penciled and striped with crimson.

**FASCINATOR.** One of the most distinct spider-like Cactus Dahlias ever grown. The petals are long and narrow, incurving in





outline with a deep rosy crimson color. This variety very much resembles the old variety Lord Nelson, but has very much larger blooms.

**MILDRED JONES.** A decorative type of bloom with the unusual habit of flowering at every tip, no matter how small these may happen to be. When in full bloom the plant looks like a huge rounded bouquet. Flowers are similar in shape to Contrast, but a lovely shade of deep rich rose in color.

**MRS. CHARLES F. KEANE.** A great advance in the darker shades of Dahlias, being a rich Jacqueminot crimson, fine wiry stems and very large as to size.

**MRS. F. H. HOWARD.** Soft shell pink with the ends of the petals split for a short distance at the tips, giving the whole bloom a fringed appearance. This variety has one of the finest tones of pink ever produced in a Dahlia. Extra fine.

**MRS. J. B. CHAFFEY.** Similar in form to the preceding variety but a deep rich rose pink in color. This variety flowers abundantly throughout the season and is of great value for cutting, the stems being stiff and upright in character. A beautiful thing under artificial light.

**MRS. H. E. COLLINS.** Pure salmon pink. A new and unusual shade in Dahlias. Flowers of giant size, delicate in its color tone. This variety should be in every collection. This form is not only an unusual break in so far as color is concerned, but it has in addition to this, splendid value as a cut flower.

**MRS. KATE JOHNSTONE.** (See Cut.) A grand shade of deep rose and splendid true cactus form. In the production of new varieties we bent our energies to obtain a better shade in the pink section, and we regard this superb sort as one of the very best of our productions.

**MRS. S. W. ALLERTON.** A handsome new type of Cactus Dahlia with somewhat broad twisting petals, the ends of which are deeply notched and split after the manner of a Staghorn fern. The color is an entrancing shade of deep lavender rose. The flowers are of enormous size and splendid substance.

**MRS. WILLIAM E. RUESS.** This variety embodies all the qualifications necessary to a first class dahlia. It possesses size, substance and vigor of growth. Its lovely primrose pink color and the irregular fringed appearance of the bloom, due of its bifurcate petals, places it in a class by itself.

**MRS. SUZANNE B. HOLMES.** A superb dark crimson maroon with flowers of grand form and substance. We had this variety on our exhibition stand at the Pasadena show last autumn, where it was greatly admired by everyone. It is a splendid Cactus type as to form, with strong wiry stems which carry the blooms well above the foliage. One of the handsomest of all dark Cactus Dahlias.

**MR. A. P. HOWARD.** Rich cochineal crimson. Perfect as to form with fine stems and foliage.



## New and Scarce Cactus Dahlias for the Season 1912

This set contains some unusually fine varieties,—improvements over older kinds. Price, each, 35 cents; per dozen, \$3.50.

These will be sent out in strong pot plants May 1st. They will bloom within sixty days after planting, and will continue in bloom until the advent of winter frosts.

**AJAX.** Orange, suffused with orange and buff.

**ALIGHT.** Rich, fiery orange. A large full bloom with slightly incurved petals.

**ECHO.** A beautifully formed bloom, with very narrow and quilled petals. Tyrian rose, with silver shadings.

**ENCORE.** With perfect habit of growth and stem, and lovely orange buff colored flowers.

**ALFRED D. ROBINSON.** This magnificent new variety is a seedling of our own production and marks a new departure from the ordinary cactus type.

The petals are flattish in form, with the ends split after the style of those in the variety Progenitor.

The color is a superb shade of pale lavender, with lighter shadings at the center.

This new Dahlia is one of several novelties of our own raising.

**M. INMAN.** A grand long stemmed orange scarlet. One of the best of this shade.

**MANXMAN.** Soft scarlet, shaded orange, with purplish tips. A good one.

**EVENING STAR.** A very narrow petaled or quilled like flower. Orange salmon.

**FLAME.** Rich orange scarlet. Extra fine.

## Cactus Dahlias—New Varieties for 1910

We have this season a fine lot of field grown roots, and will also have pot grown plants by May 1 for those who prefer them. These last named plants bloom shortly after planting, and make very straight and shapely specimens. Price of any of the following varieties, each, 25 cents; per dozen, \$2.50.

**Daisy Easton.** A flower of exceptional beauty. Color deep yellow. Petals finely quilled and incurved.

**Diavolo.** A unique fancy cactus dahlia. The petals are yellow at the base, gradually shading to rose at the tips, all being thickly speckled and striped with crimson.

**Flag of Truce.** A lovely, pure white variety of exquisite form and finish. Has fine stems, which hold the flower well above the foliage. A great advance in the section of white.

**Hamlet.** Flowers very large. Petals beautifully quilled. Orange red in color.

**Hyacinth.** A delicate shade of mauve pink with yellow shadings at the base of the petals. Extra good.

**Lady Fair.** A great advance on split petaled types, being deeply furcated, as in the variety Progenitor. Color delicate primrose yellow tinged with soft pink. A beauty.

**Meteor.** A handsome fancy variety, having a pure white ground, striped, splashed and mottled with violet purple.

**Ruby Grinstead.** A fine exhibition variety. The color is a soft tinted yellow, gradually merging to rosy fawn at the tips. Flowers large and of striking form. Extra good.

**MRS. H. SHOESMITH.** Another very fine pure white, quite distinct in form from Flag of Truce. The flower is composed of long narrow petals, which incurve slightly. Extra fine stems.

**Rev. Arthur Hall.** A variety with exceedingly large flowers and very narrow petals. Color rich ruby crimson. A magnificent dahlia.

**Sunshine.** A fine exhibition flower of a deep rosy carmine color, with lighter shadings toward the center. Perfect in form and stem.

**Wm. Marshall.** A magnificent bloom, of immense size. Color orange with a yellow center.

## General Collection Cactus Dahlias

Price, each, 20 cents; per dozen, \$2.00.

**A. C. Davis.** A lovely medium sized bloom; in color a delicate shade of lavender pink.

**Butterfly.** A lovely bi-color, deep crimson at the base, with conspicuous white tips. Stems long and stiff.

**Chas. Woodbridge.** Bright crimson, shaded with purple on the reverse side of the petals. Petals straight and tapering to a fine point at the tips. Extra good.

**Cockatoo.** Variable in color arrangement, but always beautiful; in fact one of the finest fancy cactus Dahlias. Clear canary yellow, shaded fawn and tipped pure white.

**Earl of Pembroke.** A nicely built flower, composed of numerous petals of a good, clean shade of purple. It shows off well under artificial light, which makes it useful for decorative work.

**E. Bonnefond.** This superb variety is undoubtedly one of the finest scarlet cactus dahlias in cultivation. The blooms are of enormous size, perfection in form and of an intense scarlet color.

**Edward Drury.** Pure yellow, elegant cactus form; sometimes tipped pure white after the manner of Sonnenstrahlen.

**Erbprinzessin Reuss, J. L.** The best of its color we have ever grown and particularly good in form. A superb shade of blood red crimson. Extra good.

**Flamme.** An elegant shade of carmine rose, shading to yellow at the base of the petals. Perfect in form and splendid in color.

**Frute.** A German novelty of great merit. Color a most delicate shade of rose pink, passing to cream at the center. Very early in bloom and of nice size.

**Gloriosa.** Intensely bright orange scarlet, with a paler reverse, incurving and curled. A beautifully formed flower.

**H. Shoesmith.** Bright crimson. A very refined cactus form, with narrow quilled petals of great length. Center full. Extra good.

**Hohenzollern.** Apricot yellow. The color is well displayed in the large incurving blooms. Extra.

**Ibis.** Deep orange. Flowers of perfect form; petals beautifully arranged. Its color is an especially pleasing shade.

**J. B. Riding.** Its new and striking shade, exceptionally large size and elegant form place this variety in the front rank of desirable novelties. The center is deep rich yellow and gradually shades to apricot red. Superb in every way.

**J. H. Jackson.** Perhaps the darkest of all cactus Dahlias. Petals long and pointed. Color rich blackish maroon.

**Libertie.** Incurved and revolute petals of a lovely rosy carmine, with maroon shadings. It is one of the finest things in this set and distinct from all others in form and color.

**Lord of the Manor.** Bright fiery scarlet, with yellow shadings at the base of the petals. The contrast in its color scheme is beautiful in the extreme.

**Mary Service.** A very free blooming dahlia, with flowers of excellent shape and substance. Color heliotrope pink.

**Mrs. Carter Page.** A splendid shade of deep, vivid crimson. The petals are so curved and narrow that the flower has more the appearance of a chrysanthemum than a dahlia. Extra choice.

**Mrs. Geo. Stevenson.** A superb yellow, with very long, narrow pointed petals. The yellow is bright and glistening. This elegant variety attracted more attention than any other of its shade that we had in bloom during the past season.





*New Cactus Dahlia  
Mrs. Kate Johnstone*

**Sirius.** In the "Fancies" this stands out pre-eminently on account of its elegant form and unique coloring. The ground color is bright golden yellow, heavily dashed and striped with vivid scarlet.

**The Pilot.** This lovely variety is another good representation of the new shades developed in cactus dahlias during recent years, and is worthy of being in the most select collection. Color terra cotta, with the base of the petals deep yellow.

**Progenitor.** Beautiful carmine crimson lake, every petal being furcated at the end like a stag horn fern and forming several points, each having a fluted termination. Very fine.

**Thos. Parkin.** Light terra cotta, with a glossy finish. We consider it one of the grandest of all new cactus dahlias. The form, color and texture are as near perfect as can possibly be.

**Thuringia.** A very large and elegantly formed bloom. Petals long and narrow and well arranged. Color bright orange red.



PAEONY FLOWERED DAHLIAS (Greatly reduced).

## New Paeony Flowered Dahlias

The following new sorts will afford a pleasant surprise to all who try them. The colors in some of the set are quite new, and all have the immense wavy petaled blooms characteristic of this section. Flowers six to eight inches in diameter.

Price, strong plants in two-inch pots, which will blossom profusely during the coming summer and autumn, each, 25 cents; per dozen, \$2.50. Ready May 1.

**ADMIRATION.** Rosy crimson with buff shadings. Over seven inches across. A splendid novelty.

**BARON G. DE GRANCY.** Plant of beautiful habit, with immense creamy white flowers carried on long stems well above the foliage.

**DR. K. W. VAN GORKOM.** White, deeply shaded rose. A very handsome variety.

**GERMANIA.** Deep orange red; an unusual and taking color.

**LA RIANTE.** Mauve pink; a superb variety as a cut flower showing well under artificial light.

**MERVILLE.** A combination of orange and yellow; immense blooms.

**REV. H. J. KITCHEN.** Lovely soft pink shaded with golden yellow at the base of the petals.

**No. 935.** A magnificent snowy white of immense size. There is nothing better.

**No. 952.** A superb Dahlia in every sense. Orange scarlet, shading to yellow at the tips.

**No. 967.** Blackish maroon. Petals beautifully reflexed.

**No. 990.** Pure white ground, splashed and striped with violet purple fully as beautiful as an orchid.

## Decorative Dahlias

These are the Giants of the race, and are distinct in form from all others. The petals are usually broad and flat and the blooms of mammoth proportions. As decorative back-row plants in borders or planted by themselves they produce a wonderful mass of color throughout the season.

### Three Magnificent Varieties of 1912

Price, strong plants in pots, May 1, each, 50 cents.

**Ely Gumbert.** With its beautiful clear pink color, immense double flowers and splendid stems, we have in this variety a dahlia which ranks high in all desirable points, and when once known will be in big demand. We can recommend it as one of the very best recent introductions.

**Le Grand Manitou.** A splendid novelty. Striped and splashed purple on a deep rose colored ground. A bloom of enormous size and perfect form. A sensational variety in every way.

**Yellow Colosse.** Without a doubt the grandest golden yellow to date. Blooms of phenomenal size and perfect form. When fully developed they measure over six inches across. There is nothing equal to it.

## General Collection

Price, unless otherwise noted, 20 cents each; \$2.00 per dozen.

**F. A. Rickers.** Glowing imperial purple. A flower of gigantic size and of elegant wavy form. It is a very popular shade of color, and shows up particularly well planted in conjunction with the lighter colors. It is invaluable for decorative purposes. Green plants May 15th.

**F. Daupais.** A gigantic flower, with long fluted petals. Color an exquisite shade of rich lavender rose. This variety was the subject of much admiration during the past dahlia season; we had plenty of flowers that were six inches in diameter. Although it throws flowers of immense size, the blooms are not in any way coarse. Somewhat similar in form to La France.

**Gigantea.** One of the largest dahlias known. Blooms of immense size; creamy white in color.

**Grand Duke Alexis.** A gem and quite distinct from any other dahlia grown. The petals are very closely set and rolled in the form of elongated cone. Color pale lilac. Very fine.

**Juno.** A truly grand dahlia. Taken in all its points, it is one of the finest ever grown. The color is an intense shade of velvety maroon, with crimson scarlet shadings. Petals broad and even in arrangement. Fine in every way. Decorative cactus type. 25 cents each.

**Jeanne Charmet.** The flower is similar in form to La France, but with a much more delicate color arrangement. Soft rose

pink with a thread of deeper tint at the edges of the petals. Flowers of mammoth size and perfect build. The petals are very broad and flat, and build up into a bloom of great depth. A superb variety. Price, each, 25 cents; per dozen, \$2.50.

**La France.** This is a dahlia for the million. A superb decorative cactus-type of flower of gigantic size and most beautiful wavy form. It approaches the popular La France rose in its delicate shade of pink. This grand sort is bound to eventually win its way into every garden where dahlias are grown. Each, 25 cents.

**Mlle. Marguerite de Blanc.** An enormous decorative cactus dahlia, six to seven inches in diameter, with deep full blooms. The color is a pure snowy white. Grand in the extreme. Each, 25 cents.

**Souvenir de Gustave Doazon.** This gorgeous decorative dahlia is without doubt the largest flowered variety in existence. We had plenty of flowers last season eight and nine inches in diameter. The petals are of great width and overlap each other regularly. The color is a rich fiery red that seems almost burnished. Very fine in every way. Price, each, 25 cents.

## Show Dahlias

We desire to call attention to the splendid collection offered below, of these old-fashioned types of dahlia. While probably not so graceful in form as the cactus type, they are decidedly better keepers as cut flowers. The formal and regular formation of the bloom and the rich and varied colors prevalent in this type, finds many admirers. Of late years they have gained much popular favor, with a constantly increasing demand.

Price of any of the following, unless otherwise mentioned, each, 20 cents; per dozen, \$2.00.

**Admiral.** Deep crimson. The ends of the petals tipped pure white.

**Adventure.** White, striped purple. Very double.

**Annie Moore.** Dark velvety crimson. Fine.

**Altus.** Purplish crimson, tipped white.

**Arthur Ocock.** A very large, reddish orange.

**Condor.** Buff, shaded orange. A neat, compact flower.

**Crescenzia Spaeth.** Snow white. Very large.

**Dorothy.** Fawn, flaked and striped maroon.

**Edler Mohr.** Blackish maroon... One of the darkest of all dahlias.

**Eloise.** Maroon, tipped pure white.

**Emperor William.** Orange, tipped and suffused with scarlet. Large and fine.

**GOLD MEDAL.** A grand variety. Immense in size. Canary yellow, splashed with red.

**Gloire de Lyon.** A large pure white.

**Harry Keith.** A big, rosy purple bloom. Extra good.

**Hugh Austin.** Orange scarlet, striped with red.

**Jungfraulische.** Snowy white. Large and distinct.

**John Lamont.** Rich purplish crimson.

**J. C. Vaughan.** Bright yellow. Large, shapely blooms.

**Lottie Eckford.** White, striped purple.

**Mabel Stanton.** Clear yellow.

**Majestic.** White, edged and striped purple and lilac.

**Mrs. Gladstone.** A beautiful silvery pink.

**Mont Blanc.** A free-blooming, pure white.

**Perfection.** Orange buff. A distinct shade.

**Pioneer.** Rich purple. One of the best.

**Spitfire.** Bright scarlet. Free blooming.

**Sunset.** Yellow, flaked scarlet.

**T. S. Ware.** Wine crimson. Rich in tone.



## Pompon Dahlias

These elegant small-flowered dahlias are really miniature forms of the large-flowered show dahlia. The colors in them are particularly fresh and bright. They make elegant cut flowers and last a long time. Price, each, 20 cents; per dozen, \$2.00.

**Arthur West.** A deep, rich crimson.

**Capt. Boynton.** Maroon, with crimson shadings.

**Ernest Harper.** Bright scarlet.

**Eva.** Rosy carmine. Extra good.

**Fairy Tales.** Pale primrose yellow. Fine.

**Flora.** A small-flowered, golden yellow.

**Galatea.** Much the same crimson as the Jacqueminot Rose.

**Girlic.** Rosy lavender.

**Jessica.** Amber, edged with red.

**Lelia.** Reddish buff, tipped white.

**Little Bugler.** Bright, rosy purple.

**Mignon.** A very dwarf maroon.

**Mephisto.** Deep blackish maroon.

**Red Indian.** Deep scarlet. Very fine.

**Rosalind.** Yellow, tipped with white.

**Sunshine.** Bright geranium scarlet. Very rich.

**White Aster.** Snowy white. Imbricated form.

**Winifred.** White, tipped lavender.

**Zerlinda.** A very dark maroon flower.

**CULTURE NOTE:** Dahlias are strong, vigorous growers, and require a rich soil, with abundant supplies of water during dry weather. The beds should be in a fully exposed, sunny position, and should be well enriched with well-rotted manure, dug deeply into the soil. A distance of three feet apart in the row, with the rows four feet apart is about the proper distance for planting.

In event that dry tubers are being planted, cover the crown with three to four inches of soil; in case green pot plants are being used, plant them one to two inches deeper in the soil than they were in the pots. It does not matter whether tubers or green plants are used in so far as the flowering during the current season is concerned.

Green plants set out as late as July 1 make splendid flowering specimens the following autumn.

As dahlias attain a height of six feet or over in a single season, staking the plants is a matter of great importance. We have found the best method is to drive the stakes before planting at the allotted distances the plants are to be set; then carefully insert the plant or tuber in the soil close to the bottom of the stake. The best size for stakes is one inch thick, two inches wide, and seven feet long. They should be made of redwood, as pine soon rots off. Drive them at least fifteen inches into the ground, as the full grown plants are very heavy, and high winds are liable to blow them over. The young shoots must be tied to the stake as soon as they attain a foot in height; as the growth progresses, tie at intervals of every eight or ten inches. The result will be a nice straight specimen and an added neatness to the garden.

Where dahlias are planted early in the season the growth becomes very woody by August, and as a general thing produces very inferior blooms in autumn. To obtain good blooms later from these plants, cut them off eight to ten inches above the ground about August 15; a new, soft-wooded growth will start at once. Remove all new shoots except five or six of the strongest. These will produce fine quality blooms during October and November.

# The Canna

THE evolution and improvement to be noted in Cannas during the past twenty years must be, even to the most casual observer, one of the most remarkable examples of what may be accomplished by the scientific application of the art of hybridization. The original species, with the exception of *Canna Flaccida* (a native of Florida) were but little more than tropical foliage plants, with small or even minute flowers; from these have been evolved the now magnificent sorts which grace our gardens with a wealth of color, and in this favored clime bloom almost throughout the year.

One of the greatest drawbacks to Cannas is that they grow so easily that they are too often neglected, with the result that half of the beauty they are capable of developing is lost. If liberal treatment is afforded them, they will produce a blaze of color which is simply dazzling.

For rich subtropical garden effects, used with various grasses, such as *Cyperus*, *Papyrus*, *Eulalias*, *Crimson Fountain Grass* or *Caladiums*, they are unexcelled.

In planting them for landscape effect it must be remembered that they are a background flower, and the most effective display is obtained by massing them.

## New Cannas for 1913

The following set of new Cannas are American raised hybrids and offer a great advance in this class of plants. A feature which all of the varieties noted have, is that the trusses clean nicely, which gives the plant a neat appearance at all times. We have subjected this set to a careful test for the past two seasons, and feel sure they will please our customers. The colors in some of the varieties are entirely new and form a distinct break from the reds and yellows usually seen.

**EVOLUTION.** Splendid trusses of large size, salmon apricot flowers. An entirely new and attractive shade. Each, 50 cents.

**MRS. A. F. CONARD.** A striking salmon pink color with enormous size flowers well displayed on strong branching trusses. It is a constant bloomer. Each, 50 cents.

**NEW YORK.** With deep bronze foliage similar to that noted in *King Humbert*. Intensely brilliant carmine crimson flowers. Each, 20 cents.

**ROSEA GIGANTEA.** Enormous deep carmine rose flowers with petals over two and one-half inches wide. This variety is going to prove a grand bedding variety. Price, each, 50 cents.

**UNCLE SAM.** Bright scarlet. Flowers of gigantic size and of the orchid flowered type. Each, 20 cents.

**VENUS.** A gem in every sense. With delicately tinted soft rose pink flowers. Each, 20 cents.

### SPECIAL OFFER

One each of the above varieties for \$1.75.

## Recent Introductions

Price, unless otherwise noted, 20 cents each; \$2.00 per dozen.

**Alfred Mauther.** Flowers of largest size, composed of immense petals. Color crimson scarlet.

**Baron Karl Merck.** A beautiful thing in every way. Leaves light green; flowers extra large, and well-rounded petals. Color a superb shade of gold, marbled and spotted with scarlet.

**Emma Bedau.** Rich crimson with yellow markings on the lower petals. Plants dwarf in habit, with enormous well-branched trusses of flowers. Extra fine for low bedding, as it rarely exceeds 3½ feet in height.

**Ernst Wieland.** One of the best pure orange scarlets, with blooms of remarkable size. Foliage thick and leathery.

**Furst Weid.** Pure crimson, of a clean, even shade; below the average in dwarfness. The trusses clear nicely, giving the plant a clean appearance at all times.

**Herzog von Otrante.** A splendid fancy canna with a most unusual color arrangement; this is a rich shade of Indian yellow in the outer portion of the petals, while the center of the bloom is deep brownish crimson. A striking variety in every way.

**HUNGARIA.** This superb novelty marks one of the greatest advances made in cannas in many years. The plant is of fine, compact habit. Foliage a rich dark green; blooms large and faultlessly formed, well displaying their delicate pure pink color, which is not unlike that seen in the Rose La France. We predict a great future for this variety when it passes the novelty stage and the stock becomes reasonable in price. At the present time it is exceedingly scarce and high. Price, each, 50c.

**Mad. Marguerite Muhle.** A big, fluffy truss of carmine rose which attracts the attention at once. Petals very wide, making a bloom of broad dimensions. A beautiful variety planted by itself. Price, each, 50 cents.

**Mad. Seibert.** Deep golden yellow, heavily penciled with brownish scarlet, the lines converging to a ground color of the same tint at the center of the flower. A very odd and handsome sort.

**Mephisto.** This variety marks a great advance in canna improvement; the blooms are not only large and well formed, but present the richest and darkest velvety crimson shade to be found in cannas. We have only a limited stock to offer this year; early orders solicited.

**Stuttgartia.** A strong, massive grower, with enormous four-petaled bloom; the color is a rich orange scarlet ground dotted with deeper colored spots, and neatly edged with golden yellow. A superb sort.

## General Collection

Price, unless otherwise noted, strong, dormant roots, each 15 cents; per dozen \$1.50.

**Frederick Benary.** A giant in every way. With us it attains a height of eight feet. Flowers of mammoth size, carried in enormous trusses. Color light scarlet, broadly edged with golden yellow. Introduced from Europe and marking a wonderful stride in the improvement of the race. No collection is complete without it.

**King Humbert.** Magnificent in every sense of the term. Foliage enormous and of the deepest shade of purplish bronze, fully as dark as Black Beauty and with the additional advantage that the flowers are of mammoth size. Color an intense reddish scarlet. A splendid variety. 20 cents each; \$2.00 per doz.

**Mrs. Kate Gray.** The first hybrid between the Crozy and Orchid flowering classes; originally sent out by us in 1900. Flowers gigantic in size. Color rich orange scarlet, overlaid with gold. The trusses are always bright and fresh.

**Mrs. George Strohlein.** With us this sort is very fine; it produces very large blooms of a deep amaranth crimson. Perfect in form and good substance. Foliage bronze. An extra good bedder.

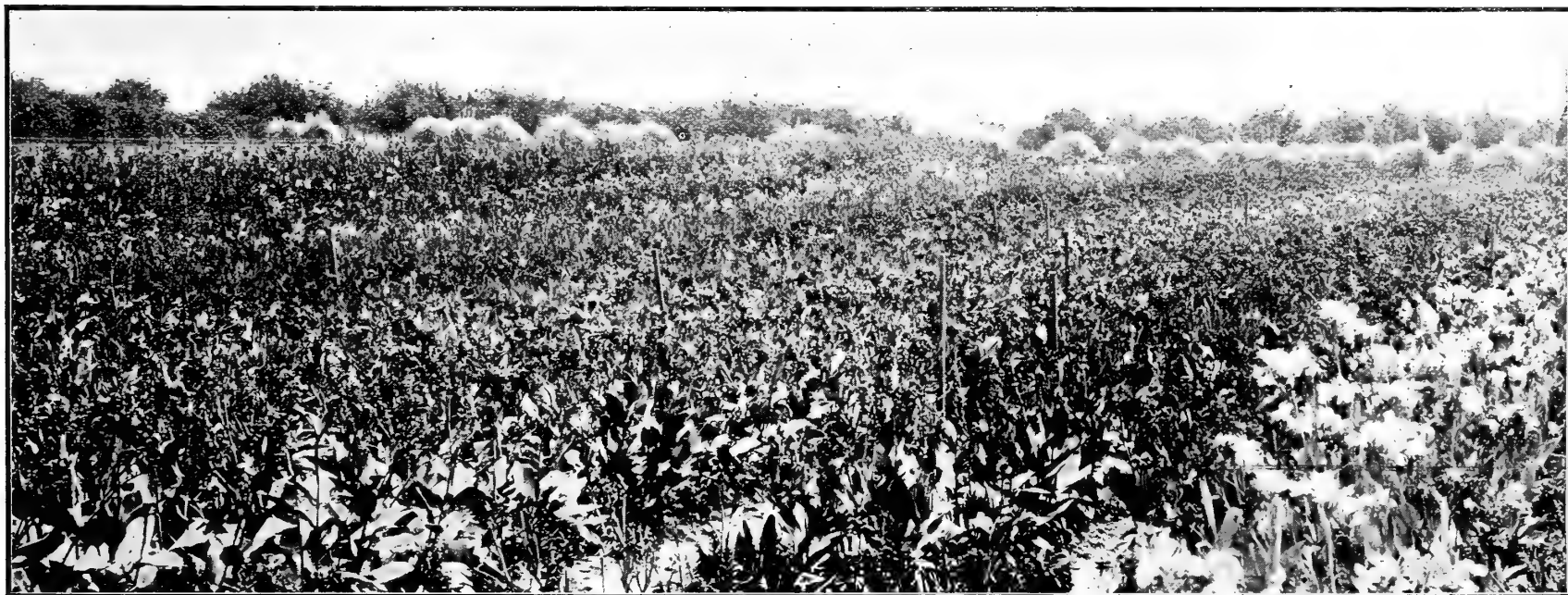
**R. Wallace.** A superb light canary yellow. Flowers enormous and carried in upright, well-branched trusses. The height of growth is only medium, but its compact nature gives the plant in bloom the appearance of a huge bouquet. The very finest yellow to date. Each, 25 cents; per dozen, \$2.50.

**Souvenir de Madam Nardy.** A great improvement on Florence Vaughan. Large, well shaped flowers. Color golden yellow, heavily dotted red.

**William Bofinger.** For producing a sheet of color it would be difficult to find anything superior to this variety. The blooms are only medium size, but the trusses are immense and have a feature of cleaning themselves nicely; when the blooms fade they fall to the ground, leaving the truss clean and bright. Color scarlet, with an orange sheen. We use large quantities of this variety for bedding purposes each season with excellent results.

**CULTURAL NOTE:** The principal points in the cultivation of cannas, necessary for the most perfect development of plant and bloom, may be expressed in very few words. They are: Summer heat, manure and an abundance of water.

As before noted, cannas are too often neglected because of their ease of growth; and yet there is not a plant grown which will respond any quicker to liberal treatment, or show a more marked improvement in quality of blooms. The beds in which they are to be planted can scarcely be made too rich; they should also be arranged with ridges at the sides so that flooding is made practical and easy. Liberal mulching should be provided during the summer, and all stems on which the truss of bloom has finished should be removed by cutting them off at the ground.



FIELD VIEW OF OUR COLLECTION OF CANNAS.

# The Perennial Phlox

THESE old-fashioned plants, in their newer and improved types, make one of the most imposing displays of color that it is possible to obtain in the garden. It is not many years removed when there were but two or three colors grown. The Phloxes of our grandmothers' garden were the old small flowered white, pink and purple. Today we have them in every color from pure white to darkest crimson, with all the intervening shades of salmon, scarlet, rose, pink, striped, etc., with enormous individual blooms carried in large, beautifully formed trusses.

Phloxes do remarkably well in California, furnishing a constant display from early spring to the advent of winter frosts. They are true perennials, and increase in vigor and beauty each succeeding year. For massing or planting at intervals in mixed borders they are beautiful subjects. Their charmingly bright and fresh colors are pleasing to the eye. The delicious wild-flower-like scent of the blooms is unlike that of any of our other garden plants.

## A Choice Assortment of the Best Varieties in Cultivation

### Recent Introductions

Price of any of the following varieties, each 20 cents; per dozen \$2.00.

**Albion.** Pure white, with a faint aniline red eye.

**Coquelicot.** Pure scarlet. There is nothing brighter.

**F. G. von Lassburg.** Very large trusses of pure white flowers. The best of all whites.

**Frau Dora Umgeller.** Very tall, with fine large trusses. Crimson red in color.

**Geo. A. Strohlein.** One of the choicest of all scarlet phloxes. Produces a dazzling effect.

**Gruppenkonigen.** Pure rose. Heads of bloom very large. A superb variety.

**Helen Vacaresco.** One of the dwarfest whites. Extra large flowered.

**Inspector Elpel.** Similar to Selma in color but with larger blooms. Pale rose, with a dark eye.

**M. Maury.** Magnificent warm salmon, overlaid with rose.

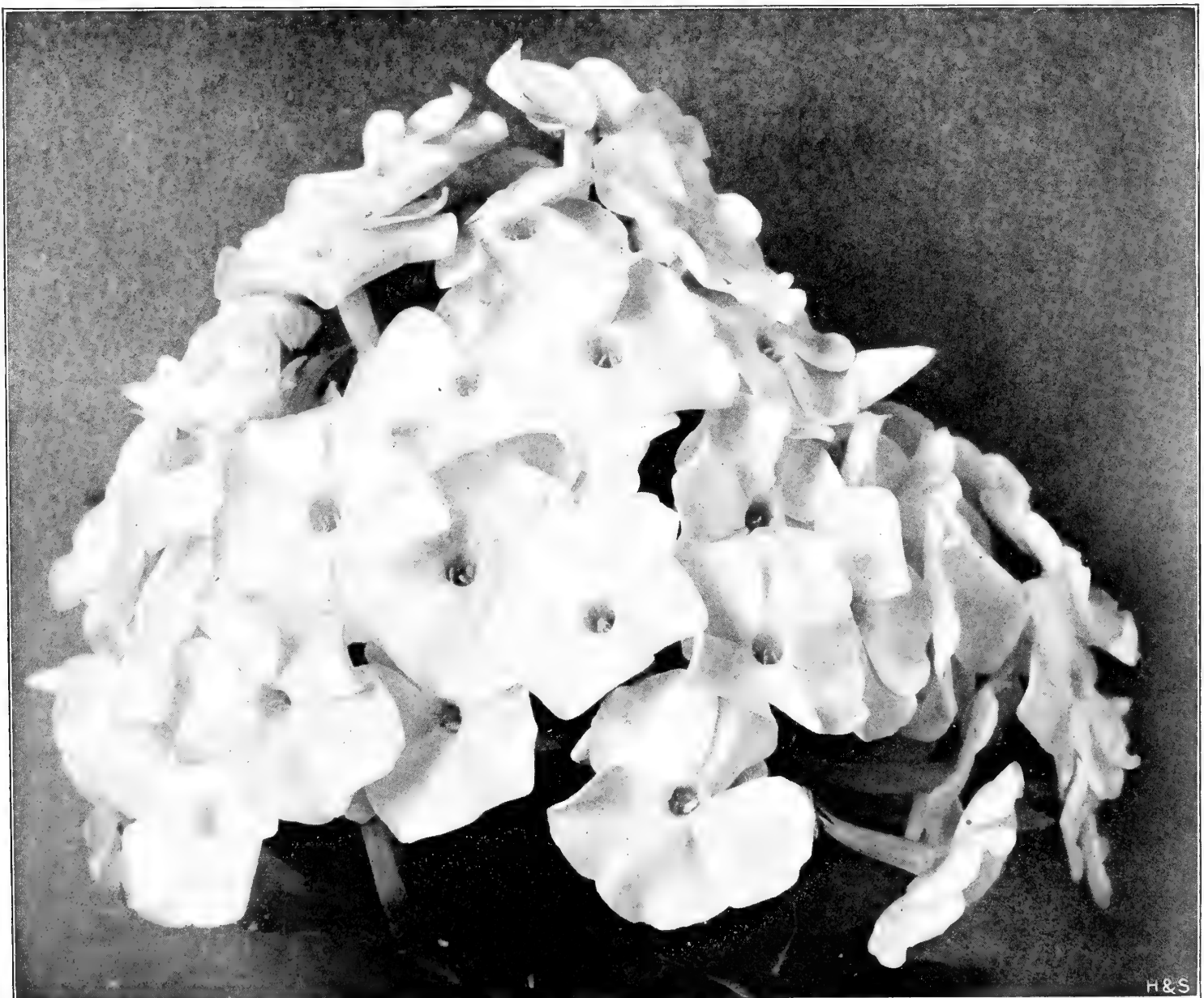
**Mrs. Jenkins.** A magnificent free blooming white of purest tone. A fine bedder.

**Prof. Virchow.** White, shading to crimson. A superb variety.

**Selma.** Pale rose, with claret eye. Extra choice.

**Siebold.** Another fine addition to the list of scarlets; a great improvement on Coquelicot.

**Von Hochberg.** Rich, deep crimson. One of the best of all dark colored varieties.



PHLOX, MRS. JENKINS.



## General Collection

Price 15 cents each; \$1.50 per dozen.

- Bridesmaid.** Extra fine. Pure white, with crimson eye.  
**Champs Elysees.** Rich crimson magenta.  
**Duguscelin.** Rosy purple.  
**Eugene Danzanvillier.** Pale lilac, with white shadings.  
**Lothair.** Very dark salmon, with crimson eye.  
**Mrs. Robinson.** Grand variety. Pure salmon. Large.  
**Pantheon.** Bright carmine rose.  
**Professor Scheliemann.** Lilac rose.

**CULTURAL NOTE:** Phloxes thrive in an open, fully exposed, sunny border, either planted by themselves or mixed in with other herbaceous plants. They are not particular as to soil as long as it has been well enriched previous to planting, and are given an occasional mulch of rotted manure during the summer.

They should be planted fifteen inches apart each way, with the crown of the plant covered to the depth of one inch. The plants may remain undisturbed for a period of three years; after that time it is advisable to divide the clumps into smaller sets. As they die to the ground in winter, care must be used not to injure the crown during this period. They require an abundance of water during the flowering period, and this should always be administered by flooding the bed. Sprinkling overhead spots the blooms and mars the beauty of the trusses.

# The Geranium

**T**HE zonal Pelargoniums, or Geraniums, as they are commonly called, are of so much value as flowering decorative plants, throughout almost the entire year, that they commend themselves to all who possess a garden and who enjoy the superb stretches of color obtainable with them.

The improvement which the Geranium has undergone during the past few years has been remarkable. The individual florets and trusses have been greatly perfected in both size and form, and in the newer race we have dwarf stocky growth, with handsome large leaves, above which are poised the immense trusses of bloom.

It will be noted that the larger percentage of our collection consists of single sorts. The reason is simply that for all around purposes, whether it be for pot work or for bedding, they are infinitely superior to double varieties.

In double Geraniums the petals of the matured blossoms dry up and remain in the truss, and unless constantly picked off, they destroy the color effect of a bed and create a very ragged appearance. The petals in a spent bloom of single Geraniums drop to the ground, leaving the unflowered part of the truss clean and bright. Ivy Geraniums, although mostly double, have not the faulty habit noted in the double zonal type, and are consequently equally as good for bedding as the singles.

## Choice Single Geraniums

Price 15 cents each, \$1.50 per dozen, unless otherwise noted.

**Dr. Condamy.** A lovely "Aureole" from France, with magnificent trusses and large individual flowers. Color brilliant scarlet, shading to violet and gradually merging to a large, pure white center.

**Emile Zola.** This is a very fine French variety, and marks a new departure in the color of geraniums. Trusses of phenomenal size and composed of immense, faultlessly formed blooms. Of all the varieties we have had on trial during the past years there are none to equal this in point of beauty; it's a gem, any way you take it. Growth short-jointed and dwarf. Color a superb tone of warm salmon, with orange shadings. Price each 20 cents. (Stock limited.)

**Fred Bean.** One of the largest flowered varieties in existence, the individual blossoms being immense and of a very fascinating pale salmon pink shade. Extra good.

**Mary Seaton.** Intense scarlet, relieved by a pure white eye. It is the best fancy aureole type we know of, having large trusses and larger individual flowers than any other of its color scheme. A fine bedder, as the petals drop clear of the trusses when through blooming.

**Mary Stewart.** Bright crimson, with a feather of intense scarlet in the upper petals. Blooms and trusses of the very largest size.

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**PAUL CRAMPBEL.** A recent introduction in single geraniums, and one which we believe will prove one of the finest scarlet bedders. The individual florets and the truss are of enormous size, with long stems, carried erect on dwarf bushy plants. Our trial bed of this variety was a grand sheet of color last season. The trusses clean nicely, which leaves the bed bright and effective at all times. Price, each 15 cents; per dozen \$1.50. (Fine strong plants.)  
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**Nuit Poitevine.** Rosy purple, with shadings of maroon and feathered with scarlet. Blooms of good size and carried in extra large trusses. It is one of the best bedders in the dark varieties, as the trusses clean nicely.

**Pierre Veber.** Center pure white, surrounded by a broad violet purple aureole. This is an extra fine "Fancy" variety, and offers a charming color contrast when bedded with a pure white such as Snowdrop.

**Pres. McKinley.** An immense broad petaled, round flowered bloom of mammoth size. Color purplish crimson.

**Rene Boyslevre.** Another fine aureole, with much the same color arrangement as Dr. Condamy, except that the aureole is more inclined to scarlet and with less violet about the center portion of the bloom. The two are quite distinct and are both equally valuable for bedding.

## A Superb Collection of Giant Singles

These are by far the best of all geraniums for bedding purposes, as the petals drop as soon as the flower dies, which leaves the truss clean and free of the black dried petal so often seen in the doubles. We grow these by the thousands.

Price of any of the following, 10 cents each; \$1.00 per dozen; \$8.00 per hundred; \$65.00 per thousand.

**Alice of Vincennes.** An exceedingly handsome single, with a pure white center, which merges through carmine rose to intense scarlet at the outer edges of the petals. Very large and very distinct.

**Cerise.** Rose, suffused with orange. Large in size, perfect in form and wonderfully free in bloom.

**Gertrude Pearson.** Clear rosy pink, with a large white eye. The colors are charmingly fresh and bright; has not even a trace of magenta. Beautiful for bedding or growing in pots.

**General Leonard Wood.** A striking combination of colors may be seen in this variety, in addition to which the size is good and the form leaves nothing to be desired. The center is pure white broadly banded with rosy crimson.

**Herrick.** Vivid scarlet. Flowers of phenomenal size, carried in immense trusses. Growth dwarf; very free flowering. A particularly rich and bright color. Extra.

**John Forbes.** Vivid scarlet, with immense circular flowers and gigantic trusses. The growth is dwarf and bushy. For bedding there is nothing finer.

**Crabbe.** A grand variety and one which speaks volumes for the work done in the improvement of geraniums. It produces mammoth trusses of exceptionally large flowers. Color a delicate shade of rosy pink.

**Jacquerie.** (See cut.) Probably the finest dark crimson single geranium in existence. The mammoth flowers are ideal in form and have that rich velvety crimson scarlet color that is admired by every one. For bedding it is unsurpassed.

**Renomme Lyonnaise.** One of the early introductions in the single aureole type and still a standard sort. Color white, suffused with rose.

**Snowdrop.** A pure white, which never shows a trace of pink. White under all conditions, with flowers as round as a dollar. Short jointed and dwarf in growth. The finest single white geranium extant.

## A Few of the Best Doubles

Price, strong young plants, 10 cents each; \$1.00 per dozen.

**Beaute Poitevine.** Has enormous flowers of soft salmon pink, shading deeper at the center. Vigorous in growth and fine for bedding.

**De Quierelle.** Rich violet purple, slightly marked with white at the center.

**Jeane Viaud.** This variety might be designated as a double Gertrude Pearson, the colors being exactly the same, rosy pink with a white center.

**La Pilot.** The most intense orange scarlet imaginable, with medium sized flowers, carried in extra large trusses. Though an old variety, it still holds its own against all newcomers of its shade. Indispensable for bedding.

**M. Canovas.** A superb crimson scarlet, with crimson shadings. Flowers very large and carried on long stiff stems. One of the best doubles for bedding.

**Madam Landry.** One of the Bruant race, with large trusses and flowers of circular form. Color clear salmon, center shading to copper with a white eye.



GERANIUM

JACQUERIE.

**Triomphe de Nancy.** A double aureole geranium, with enormous flowers. In color a peculiar shade of carmine red, with a distinct white center.

**Thomas Meehan.** Bright pink, the upper petals marked with orange. Trusses large and composed of faultlessly perfect flowers; remarkable in size and rich in color.

## Ivy Leaved Geraniums

Our collection of these is an especially fine one, comprising all the newer kinds, as well as standard sorts. They are indispensable for window boxes, bedding, or in fact any position where plants of a trailing habit may be used.

We desire to call special attention to the value of Chas. Turner, Etincelant, Carlos Uhden, Gringoire and Leopard as bedding plants. They produce a constant show of bloom, and being of procumbent habit, never become tall or unshapely.

Price, unless otherwise noted, of any of the following, each 10 cents; per dozen \$1.00; per 100, \$7.50.

**Achievement.** A grand hybrid between the zonal and ivy leaved sections. It has the habit of the zonal, with ivy leaf and flower. For bedding it would be hard to equal, as the growth is extra dwarf. Color rose pink, with a white eye.

**Carlos Uhden.** (New.) A magnificent variety, quite double and a superb shade of rosy scarlet with purplish reflex. 15 cents each; \$1.50 per dozen.

**Charles Turner.** The best known of all Ivy Geraniums, and for all-around purposes one of the most useful. Deep bright pink in color, with very large flowers. When used as a bedder it produces a sheet of color, and the trusses are always clean and bright.

**Charles Monselet.** Deep rosy red, with the upper petals nicely marked. Fine large trusses, on long stiff stems. A free grower and a very abundant bloomer.

**Colonel Baden Powell.** (New.) For size of bloom there is nothing better in the family. The color is a delicate pearly white, sometimes showing a bluish tint. Extra good for window boxes, hanging baskets, etc.

**Etincelant.** (New.) A very scarce variety and without question the most brilliant colored Ivy Geranium ever raised. Color intense scarlet, with very large flowers, borne in good sized trusses. Free in growth and bloom. Stock limited. Each 15 cents; per dozen \$1.50. Good strong plants from 2-inch pots.

**Flamboyant.** A compact hybrid ivy zonal variety. Superb orange scarlet in color. It is as bright as the variety La Pilot. Each 15 cents; per dozen \$1.50.

**Gringoire.** Beautiful deep rosy carmine. Blooms very double and very free. The color is unique, with a beautiful satiny finish.

**His Majesty the King.** (New.) Soft rosy scarlet. Large, double trusses. Very double and regular in form; freely produced and unequalled in color.

**BERYLWOOD.** This superb new ivy-leaved Geranium originated on the grounds of Thomas R. Bard, Hueneme, California, from whom we obtained our original plants. We have had it under trial for the past two years, and believe it is going to prove one of the finest ivy-leaf varieties ever introduced. In general formation the blooms much resemble those of Charles Turner, but they are much larger and quite distinct in color. The color is a unique and beautiful shade of deep cherry red, handsomely blotched on the lower petals with crimson. As a variety for parkings or trailing over terraces, for basket work, etc., we feel certain that when it becomes better known it will supplant Charles Turner in a large measure. It is superior as a grower and bloomer, and offers, in addition, a shade of color hitherto unknown in this class of plants. Price each 20 cents; per dozen \$2.00.

**Leopard.** Unique in color, large in size and very free in bloom. The color combination is one of the most striking we know of, and at first glance it is often taken to be a Pelargonium. The very large flowers are a dainty lavender pink, flamed and dotted with crimson in the upper petals.

**La Foudre.** Orange scarlet. Large, extra double blooms, and the best of its color in the ivy-leaved section.

**Mrs. H. J. Jones.** Carmine rose, curiously feathered with maroon on all the petals.

**Peladan.** An enormous flower; nicely double and handsome rosette form. Bright salmon, penciled maroon.

**Sabrina.** Soft red, semi-double and very free in bloom. A gem for fine window boxes.

**The Blush.** Pure white, faintly tinted with rose at the center. The best nearly pure white we have ever grown and a great improvement on Jeanne d'Arc. 15 cents each; \$1.50 per dozen.

**Willy.** One of the grandest of the new Ivy Geraniums. It is a remarkably strong grower, and blooms in such profusion as to completely cover the plant. Color a superb shade of bright scarlet. It is quite distinct in color from Etincelant. Excellent for massing, on account of the fine color. Each 15 cents; per dozen \$1.50.

**CULTURAL NOTE:** It may seem almost unnecessary to refer to the culture of a plant of such easy growth as the geranium, especially as applied to its cultivation in California; yet there are a few points which we desire to call attention to. In the first place, they only should have a moderate amount of manure of any kind; if overfed they have a tendency to produce a rank growth of foliage with small trusses of blooms. They require less water than most plants, and should be planted in the hottest and sunniest position possible.

If nice dwarf growth is desired, the tips of the main stems may be pinched out from time to time; this induces a growth of stocky laterals, and keeps the plants dwarf and compact.

For indoor decoration they make splendid pot plants; elegant specimens can be grown in the six or eight inch size, and if kept well pinched, the foliage almost hides the pot.

# The Pelargonium

**PELARGONIUMS**, or "Lady Washington Geraniums," as they are commonly called, are among the most beautiful of our summer and fall flowering plants. They offer a rich and varied assortment of colors or combination of colors, and the ease with which they may be grown should recommend them to everyone.

There is a constantly growing demand for good Pelargoniums, and the collection we offer includes some of the finest varieties now in commerce. They are free blooming and large flowered. They make elegant specimens when well grown in pots, and if carefully pinched out, so as to make spherical plants, they rival azaleas in beauty.

The new set which we have the pleasure of offering for this season represents some of the loveliest varieties ever produced. The plants are of splendid compact habit; flowers and trusses of phenomenal size, and comprising a series of colors which are not only new, but of matchless beauty.





PELARGONIUM, KATE BORNEMANN.

### General Collection

Price each 20 cents; per dozen \$2.00.

**Anita.** Flowers of exceptional size and remarkably free in bloom. Center of the flower is nearly white, merging into the brightest rose, with the

upper petals feathered dark crimson.

**Bertha Wagner.** A large flowered variety. Deep carmine rose. Edges of the petals white.

**Centenaire.** A superb variety. Flowers of the largest size. Color clear

violet, with enormous black blotches on each of the petals.

**Cornelie.** Large flowers. Color soft rose, with a white center and maroon blotches, edged with orange rose.

**J. B. Boland.** Rose, suffused with salmon, having black blotches in the upper petals.

**Lord Clyde.** White veined and flushed with light purple, each of the petals having a velvety crimson blotch.

**Olympe.** A magnificent pure white variety, with full rounded

petals. The flowers are carried in large freely produced trusses. We obtained this variety, along with Centenaire and a few others, from a noted French grower. We regard it as the best white Pelargonium to date. Price each 25 cents; per dozen \$2.50.

**Opale.** Belongs in the same set as Olympe. Petals beautifully undulated and large. Color rose, with a white center. A beautiful combination of colors. A compact grower.

**Volante Nationale Alba.** An old standard white Pelargonium. Blooms extra sized. Growth strong.

## Novelties of 1912

Price, strong young plants, each 25 cents; per doz. \$2.50.

**ANDENKEN AN LONDON.** Enormous, round, scarlet red flowers, with a distinct white center; the two upper petals blotched with black.

**BALKONIGEN.** Light rose; enormous flowers in very large-sized trusses.

**CARL HOLZMAN.** Scarlet, with a light colored center; upper petals penciled and spotted black.

**ERBPRINZESSEN YSENBURG.** Light red, center white, with white edging to the petals, and dots of white over their entire surface. A unique sort.

**FRAU KRUMB.** Petals beautifully fringed and undulated; color pale soft rose, with the upper petals blotched deep purplish red. Very fine.

**FRED H. HOWARD.** Named after one of the members of our firm by the celebrated German specialist with whom this entire set of varieties originated. The color is a striking shade of deep scarlet, with two upper petals blotched black; the three lower ones are marked with smaller blotches of the same color.

**MISS SAUNDERS.** A magnificent pure white with the two upper petals broadly blotched with purplish crimson. Very large blooms.

**PAULINE SCHROETER.** Deep rosy carmine, with a white eye; upper petals with dark blotches.

**PETER HOSER.** Fiery brick red, with black blotches on each of the five petals. Large flower and truss.

**SCHONE ILLA.** Salmon rose, with dark blotches in the upper petals. A very pleasing shade.

**KATE BORNEMANN.** We distributed this sterling variety in 1910. It gave much pleasure to all who grew it, as it undoubtedly is one of the handsomest things in our collection. We sold out early last season, and this year we have only a limited number to offer. Color white, overlaid with salmon pink, blotched rich crimson and feathered rosy carmine. A flower of unusual beauty. Price, each 35 cents.

**CULTURAL NOTE:** Pelargoniums are almost of as easy culture as geraniums, and require much the same treatment. There is one feature wherein they differ greatly from the latter, however, and that is, they are much more straggling in growth. To do well, they require a very sunny position and a perfectly drained soil, which is not too rich. They are perfectly at home against a south wall where the refracted rays of a summer sun would destroy the bloom on most any other plant. To keep them in shape they should be pinched back from time to time previous to the commencement of their blooming season. By stopping the growth in this manner, many lateral growths are consequent. These should be pinched

in turn if they become too long. The result will be a nice bushy specimen of rounded shape, thickly covered with fine trusses of bloom.

The blooming season usually opens in April. About March 1st a liberal dressing of well-rotted manure greatly improves the size and quality of flower. If given at any other period it indicates too rank a growth of foliage and stem. The time for pinching out the shoots is during the late summer and fall months, and should be discontinued after that.

They are one of the most useful of plants for seashore gardens. They thrive and bloom abundantly in almost pure sand.

## The Fuchsia

**T**HESE excellent shade-loving plants are indispensable to a garden. They do well planted in any well protected north border, and bloom in great profusion during the greater part of the year. Give them a well prepared soil, which has been thoroughly enriched with decomposed manure, and a copious supply of water during hot weather. We wish to draw special attention to our collection, believing it to be one of the best, if not the best in the country: it comprises the very finest large-flowered recently introduced kinds. Customers who have been accustomed to seeing the old-fashioned sorts long grown in gardens here will be surprised at the mammoth size of the double varieties and the very striking beauty of the singles.

### Twelve Grand Double Fuchsias

Price 20 cents each; \$2.00 per dozen.

**Abbe Farges.** Extremely double. Sepals very much reflexed. Corolla reddish violet. Giant in size.

**DIAMANT.** A grand double variety. Corolla white, with carmine shadings. Sepals rosy scarlet.

**Emile Laurent.** A very free blooming variety. Sepals clear rose; corolla rose and white.

**G. Portesi.** Double. Corolla violet blue, veined with scarlet at the base of the petals. Sepals scarlet. A superb variety.

**Jarry Desloges.** Sepals clear red; corolla enormous. White, with rosy carmine at the base. A superb variety.

**Le Robuste.** Sepals reflexed, dark rose in color. Massive long corolla; color violet blue, veined with rose and fleshy white. Extra good.

**Pythagore.** Sepals dark coral red; corolla very double and spreading. Rich violet in color. Extra fine and large.

**Renault Morliere.** Sepals broad and reflexed. Corolla deep prune color. Very large flowered.

**Rose Phenomenal.** Similar in size and form to White Phenomenal. Color rich lavender mauve.

**SYLVIA.** Calyx scarlet. Corolla giant in size and pure white in color. Beautifully formed flower.

**Torpilleur.** Sepals intense red; giant double corolla. Color flesh, shaded rose. Extra fine.

**Yves Delage.** A strong, upright grower, very much branched. Sepals large and wine red in color. Corolla very regularly formed; rich prune color.

## Four Fine Singles

Price 20 cents each; \$2.00 per dozen.

**Black Prince.** Rich rose, with scarlet sepals. Corolla broad and spreading.

**Elsa.** Single. An exceptionally large flowered sort. Sepals rose colored; corolla rosy purple. Nothing finer in its color.

**Souvenir de H. Henkle.** A beautiful hybrid of the triphylla class. Large crimson foliage and pendulous flowers of a distinct carmine rose shade. Flowers three inches long. Each 25 cents; \$2.50 per dozen.

**Swanley Yellow.** Another very beautiful single, with very long tube and spreading sepals. Corolla orange red. Extra good.

## Some Lovely Miniature Flowered Forms

These are very vigorous growers and produce a wonderful profusion of small, dainty blossoms. They are fine for shady trellises, etc. We can offer the following fine varieties, price 15 cents each, \$1.50 per dozen: Bouquet, Florian, Carmen, Minos, Enfant Prodigue.

**CULTURAL NOTE:** Fuchsias require a partially shaded position; a rich, well-drained soil with abundance of moisture during hot summer weather. They make a beautiful background plant in shady borders, and may be grown in various shapes to suit the requirements of the bed. A good plan is to grow them on fan-shaped trellises four or five feet high; as the growths occur, spread them out and tie neatly. When they reach the top, pinch the shoots; this induces a heavy growth below, and the trellis is soon covered with a heavy leafy growth, and in season with plenty of bloom displayed to the best advantage.

Fuchsias are very subject to attacks from thrip, a minute insect working on the under side of the foliage, and if not checked in its early stage the foliage soon drops. Its presence can be detected by the appearance of the foliage, which turns from normal dark green to a brownish hue. A prompt application of a strong solution of Phytophiline by means of an atomizer will remove the difficulty at once.

# Perennial Flowering Plants

## General Assortment

### Acanthus

**Mollis.** A handsome plant for herbaceous borders, with large spikes of pretty rose colored flowers.

The leaves are about two feet long by one foot wide with deep notches along the margins.

The flower spikes attain a height of four feet and when in bloom present a unique and attractive appearance.

Price each 25 cents; per dozen \$2.50.

### Agathaea

**Coelestis.** This is commonly known as the Blue Daisy or Blue Marguerite. A charming old-fashioned plant, which blooms continuously winter and summer and produces a beautiful mass of color. Price 10 cents each; \$1.00 per dozen.

### Ageratum

**Princess Pauline.** A beautiful variety and one that is quite distinct from any other. The body of the flower is pure white, while the numerous anthers are delicate sky blue. The plant is very dwarf in habit, rarely exceeding eight inches in height, and, like all Ageratums, is an excellent bedding and border plant. Strong plants, from 2-inch pots, 75 cents per dozen; \$6.00 per 100.

### Anchusa

**Italica.** (Dropmore Variety.) A recent and noteworthy addition to the list of hardy plants, requiring in this climate a partially shaded position for best results. The flower stems attain a height of six feet, and during the summer season are covered with deep bright blue flowers about an inch across. A plant in full bloom is a striking object, and reminds one of a giant Forget-me-not in one of the rarest and most beautiful shades of blue. Price, strong plants, each 25 cents.

### Armeria

**Cephalotus.** An attractive and pretty dwarf plant suitable for borders and rockeries. The leaves form dense tufts close to the ground; the flower stems are long and wiry, surmounted by a small head of bloom, rosy-lavender in color. Price each 15 cents; per dozen \$1.50.

### Arabis

**Alpina Superba.** A new and improved form of the ordinary Alpina and one of the prettiest dwarf rock plants grown.

The plant is more or less prostrate in habit and during spring is covered with masses of pure white flowers.

It thrives in any situation and aside from its value in the rockery may be effectively used as a border plant.

Price each 15 cents; per dozen \$1.50.

### Aster

**White Queen.** A beautiful perennial Aster which produces great masses of starry white blossoms during the autumn months.

It makes an ideal cut flower for mixing in bouquets besides being of splendid decorative effect in the garden.

Price each 15 cents; per dozen \$1.50.

### Anemone Japonica

The lovely Japanese Wind-Flowers are amongst the most beautiful of all our fall flowering plants; as cut flowers they last exceedingly well, and there are few plants more attractive or graceful in herbaceous borders. They bloom in wonderful profusion from August until late fall, the plants attaining a height of four to five feet and being literally smothered with flowers.

They require a partially shaded northern aspect for best results, with plenty of water and an occasional mulch of rotted manure.

## TWO BEAUTIFUL NEW VARIETIES

**KREMHILDE.** A lovely shade of soft pink, flowers perfectly double, with long narrow petals; foliage dark green and very broad and heavy. A grand acquisition to the list of hardy plants.

**LORELEY.** Similar in many respects to the foregoing variety, but with broader petals and a somewhat deeper shade of pink. Price of the two foregoing varieties, each 25 cents; per dozen \$2.00.





ANEMONE KREMHILDE

**Alba.** One of the loveliest of all the Anemone or Wind Flower family. Petals of snowy whiteness and with the yellow center, producing a striking contrast. Each 15 cents; per dozen \$1.50.

**Queen Charlotte.** A hybrid between Anemone Japonica Alba and Anemone Japonica Rosea. Flowers very large, semi-double in form and a most pleasing silvery pink in color. They are borne in large whorls, on stems four to five feet high, and are produced in lavish profusion from early until late fall. Very fine. Price, each 15 cents; per dozen \$1.50.

## Begonias (Fibrous Rooted)

### Tree Begonias

This section contains the strongest and tallest growers in the family; they produce immense panicles of bloom and it is nothing unusual to have the canes six feet in height. They are of easy culture and are wonderfully effective when used in conjunction with ferns, or in the rock garden.

**Argentea Guttata.** A beautiful variety with all of the leaves dotted with silvery white spots on a purplish bronze ground; under portion of the leaves rich, coppery red. It produces large quantities of white flowers in medium sized panicles; a splendid outdoor variety. Each 25 cents; per dozen \$2.50. Extra large plants, 50 cents each; per dozen \$5.00.

**President Carnot.** This beautiful Begonia is the parent of most of our best tree begonias; a very vigorous grower with dark, handsome foliage and enormous panicles of deep rose colored blooms. A magnificent variety. Young plants from two-inch pots, each 25 cents; per dozen \$2.50. Extra strong plants, each 50 cents; per dozen \$5.00.

\*\*\*\*\*  
**LUCERNE.** (New.) The most magnificent type of plant and flower ever produced in a tree Begonia. The trusses of bloom are enormous in size, attaining in fully grown plants a foot in diameter. The color is a superb shade of coral rose; foliage deep bronzy red on the under side, dark green on the upper surface. The plants reach a height of five feet, and when in full flower are beautiful in every way. Price each 25 cents.  
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**Rubra.** A very rapid grower, and when fully developed it is covered from top to bottom with medium sized panicles of bright scarlet blooms. Foliage light green in color and quite smooth. It makes a beautiful specimen pot plant. Each 20 cents; per dozen \$2.00.

**Manicata Aurea.** A handsome ornamental foliaged variety; the large leaves are blotched and spotted golden yellow on a green ground. A fine pot plant for indoors or for planting out in shady beds. Price, 25 cents.

**Scandens.** With light green foliage and clusters of small white flowers. The plant is of climbing habit, and may be trained on a wall or trellis. It is also a fine variety for hanging baskets. Strong plants in five-inch pots, each 35 cents.

### Semperflorens Begonias

The varieties of this type produce elegant effects planted on the margins of beds as a setting to taller plants, and throughout the year are veritable



ANEMONE JAPONICA ALBA

mounds of color. For bedding purposes they excel all others. They attain a height of 10 inches.

#### FOUR VERY FINE VARIETIES

**GRACILIS ALBA.** Pure white with large waxy flowers. It combines dwarfness with an excellent compact habit. Price each 10 cents; per dozen \$1.00.

**GRACILIS LUMINOSA.** Bronzy foliage and rich crimson colored flowers. A lovely variety. Each 10 cents; per dozen \$1.00.

**GRACILIS ROSEA.** Clear waxy pink; a fine companion to the above. Each 10 cents; per dozen \$1.00.

**GRACILIS RUBRA.** Deep rose, intermediate in color between Luminosa and Rosea. Each 10 cents; per dozen \$1.00.

**CULTURAL NOTE:** Nearly all begonias do best in a shady position. The soil should be rich and of a fibrous nature. The addition of peat or leaf mould to the beds aids in the production of an abundant root action, prevents the soil from baking, and furnishes the plant at the same time with plenty of humus. The tree begonias make splendid back row plants, attaining a height of seven to ten feet. They harmonize well with ferns, and nothing is prettier than a well grouped bed of these with tall stately begonias in the background. The soft tones of pink in the begonias lend a touch of color to what would otherwise be a mass of green foliage.

### Boltonia Glastifolia

An excellent hardy herbaceous plant covered during the early fall with myriads of small starry pure white flowers. It produces a light airy effect when used with heavier flowers in bouquets. Strong field clumps, each 20 cents; per dozen \$2.00.

### Campanula

Among the various herbaceous perennial plants there are but few which exceed in beauty the different species of Campanulas. They are adapted to many uses, being equally valuable for a show in the garden, or as cut subjects for house decoration. Their range of colors, taking into consideration that Canterbury Bells should come under this head, is a wide one, and is especially replete with that scarcest of all colors—blue.

**Persicifolia Alba.** The plants attain a height of two to three feet, and in season are a mass of pure white bloom. A fine

thing for perennial borders. Price each 15 cents; per dozen \$1.50.

**Persicifolia.** Blue. Similar in all respects to the above, but with handsome deep blue flowers. Price, each 15 cents; per dozen \$1.50.

**Persicifolia Moerheimi.** A grand double white form, and undoubtedly one of the handsomest of perennial plants. Should be in every garden. Each 25 cents; per dozen \$2.50.

**Pyramidalis Alba.** A gem among the hardy campanulas. The plant is of tall growth, reaching a height of 5 to 6 feet and during the early spring months is completely smothered with dainty, pure white bell-shaped flowers. It is biennial in character and should be planted during summer or early fall for blooming the following season. Strong plants, 15 cents each; \$1.50 per dozen.

**Pyramidalis Blue.** Similar in all respects to the above, but with rich blue flowers. Strong plants, 15 cents each; \$1.50 per dozen.

### Canterbury Bells (Campanula Medium)

These charming old-fashioned flowers are favorites with all, and are among the most beautiful of our spring flowers. They may be flowered in pots, and when so grown are extremely pretty, their large bell-shaped flowers showing to great advantage. The strain we offer is an exceptionally good one, containing all colors from pure white to dark purple, with the intervening shades of rose, pink, blue, etc. Price, each 10 cents; per dozen \$1.00.

### Chenostoma

**Hispida.** A splendid and but little known border or rockery plant. It is a dwarf, small leaved and densely foliaged plant, covered with minute white flowers throughout the year. It forms one of the prettiest border plants we know of. It can be trimmed to any desired shape, and it is perpetually in bloom. Price, each 15 cents; per dozen \$1.50; per hundred \$10.00.

## Our New Perennial Larkspurs

### Hybrids of Delphinium Belladonna

**T**HE value of the original type of Delphinium Belladonna is well known and appreciated. Its freedom of growth, lovely sky-blue flowers, long and continuous blooming qualities, have placed it in the foremost rank of choice hardy plants. Our new strain of this lovely hardy Larkspur contains not only the sky-blue of the parent type, but all shades from palest to darkest blue. The various intervening shades of sapphire, turquoise, indigo, etc., are rich and beautiful beyond description. The plants are dwarf in growth, rarely exceeding two feet to two and one-half feet in height and unlike the old perennial Larkspur, require no staking. They branch freely from the crown and bloom without intermission from early spring to late autumn, with an increasing vigor to the plants each succeeding season. The blossoms are much larger than the older variety, with a much better arrangement on the spike. The foliage is deeply dentate, giving a most graceful and fern-like appearance to the plant and offering a beautiful foil to the gracefully poised spikes of bloom.

Two years have passed since we first placed this strain on the market, and during that time we have sold thousands of plants. The reports we have received regarding them leave no doubts in our minds that we have sent out something which is a worthy addition to any garden.

For producing a fine mass of blue they are simply unequalled, and the fact that they retain their beauty in a cut state for five or six days should not be overlooked.

Comparatively speaking, there are few blue flowers in nature, and none can excel the exquisite shades found in the various good strains of Delphiniums; and now that we have produced a practically ever-blooming strain, further increases their value.

We can supply the sky-blue shade separate from the mixed colors to those who prefer it.

Price, strong one-year clumps, each 20 cents; per dozen \$2.00.

**CULTURAL NOTE:** To obtain the best results, they should be planted in full sun, two feet apart each way, in any good loamy soil to which has been added and thoroughly dug in a liberal dressing of well rotted manure. An occasional mulch of the same material during the hot months will greatly increase the quality of the plant and bloom.

Arrange the beds so that the plants may be irrigated either by the trench method or by flooding. Sprinkling overhead, as with numerous other plants is detrimental in many ways. If a little extra care is bestowed upon them the results will more than repay the trouble, and the grower will be rewarded with a veritable mass of bloom in some of the loveliest shades of blue in existence.





HEUCHERA SANGUINEA

## Columbine

**Aquilegia Coerulea Hybrids.** A superb strain of long spurred types containing all shades from pure white to deep purple, including yellow, red, etc. The plants require a partially shaded position, and may remain undisturbed for two or three seasons. They come into bloom in early spring and furnish an abundance of graceful flowers for cutting. Price, each 15 cents; per dozen \$1.50

## Coreopsis

**Grandiflora.** One of the most useful of all plants grown for cut-flower purposes, being covered for the greater portion of the year with endless quantities of golden-yellow blossoms, two to three inches across.

A very effective plant in the garden as well; its masses of yellow flowers always attract attention.

Price, each 10 cents; per dozen \$1.00.

## Cuphea

**Platycentra.** A compact, bushy plant, bearing quantities of tubular flowers, the lower part of which are bright scarlet with deep maroon and white at the tips. A fine bedding plant, as it blooms incessantly. It requires a warm, sunny position. Price, each 15 cents; per dozen \$1.50.

**Hyssopifolia.** A comparatively little known border plant of great beauty and worth. It equals boxwood as an edging plant and has the additional advantage of being constantly in bloom. The flowers are minute in size but are produced so freely as to almost cover the plant. Color violet blue. Price, each 15 cents; per dozen \$1.50.

## Delphiniums (Double and Single Hybrids)

These are the tall-growing perennial Larkspurs in a greatly improved form. The strain contains both double and single flowers. They grow much taller than the strain described on preceding page, but do not flower so freely. The spikes attain a height of six feet and are very imposing as a back row flower in herbaceous borders. Price, each 25 cents; per dozen \$2.50.

## Gazania

**Aurantiaca Hybrids.** (New.) A splendid new race of Gazanias with very large broad petaled flowers which vary in color from almost pure white to deepest orange.

For edges to borders or for planting in parkings Gazanias make a constant and brilliant display; they are doubly valuable because of the fact that the plants continue to bloom season after season, requiring little attention beyond an occasional division of the clumps.

We have selected from the above strain a big, lemon-yellow colored variety of which we have propagated a large stock and can offer this color separately.

Price, each 10 cents; per dozen \$1.00.

## Gypsophila

**Paniculata.** This is the variety so much used by florists for mixing with bouquets, etc. The plants attain a height of two to three feet, are much branched, and covered during spring and summer with innumerable minute pure white flowers. Price, each 10 cents; per dozen \$1.00.

## Helianthus

The three following varieties are among the most useful of summer flowering perennials; during their season the plants are a mass of golden yellow flowers. For a color effect in the garden, or for cutting purposes, they are extremely valuable. The plants delight in a good, rich soil, with plenty of water and full sun. They die to the ground each winter, but with the return of spring new shoots issue from the roots beneath the surface.

**Maximus.** Covered with innumerable double golden yellow blossoms from June to September. The blooms are much the same shape as a double dahlia,



NEW HYBRID GERBERA

but less stiff. Very useful as a cut flower. Height about five feet. Price, nice young plants, each 15 cents; per dozen \$1.50.

**Meteor.** Similar to the above in foliage, height, etc., but differing in the shape of blooms; these have a wide border of guard petals surrounding the central disc. Very beautiful and scarce. Height five feet. Price each 15 cents; per dozen \$1.50.

**Miss Mellish.** A lovely single perennial sunflower, cactus-shaped blossoms, produced on stems six to eight feet high. An excellent cut flower. Price each 15 cents; per dozen \$1.50.

## Heliotrope

These well known and delightfully fragrant subjects are favorites with all, and are of special value in the garden on account of their free blooming character. They require a sunny position; the mistake is often made of planting them in the shade, where they make a straggly growth and produce small trusses of bloom. Although usually planted as single specimens, a much better effect may be obtained by planting in masses, or by using them for a border for dwarf shrubberies, herbaceous borders, etc. The larger number of trusses in view gives a definite color effect, which is lost when used singly.

With the exception of the last variety, they are dwarf in growth, rarely exceeding three feet in height.

### THREE SUPERB NEW ONES

**BUISSON FLEURI.** Trusses of enormous size, on nice dwarf plants. Color rosy violet.

**LUEUR D'OPALE.** Color azure lilac. Trusses and individual florets very large. A wonderfully fine thing.

**PRINCE CHARMET.** A handsome shade of bluish mauve. Growth compact and clean. A fine bedding variety.

Prices of the three foregoing sorts, each 25 cents; per dozen \$2.50.

## General Collection

Price of any of the following sorts, each 15 cents; per dozen \$1.50. Large bushy plants, 35 cents each.

**Camelon.** Bright blue, passing to pale lavender. Trusses and individual florets of the largest size.

**La Duse.** One of the prettiest dwarf, large flowered varieties; it rarely exceeds eighteen inches in height and is always in bloom. Foliage bright and glossy, with enormous sized globular panicles of light colored bloom.

**Le Poitevine.** Trusses enormous in size. Color light blue, shading to violet. Medium height and very free in bloom.

**Mirelle.** One of the lighter shades, with very large individual florets and trusses. Color pearly white, shading to deep blue.

**Queen Marguerite.** For hedges in large plantings or individual specimens this is a variety of great value. The color is very dark and the flowers strongly fragrant. The plants are very even in growth and are continuously in bloom. Of all the newer dark varieties of giant Heliotropes which we have tested we have found nothing to equal this as a bedder. We have grown an immense stock and can supply almost any quantity.

**Old Fashioned Dark.** Small trusses of intensely fragrant flowers, dark purple in color; climbing in habit.

## Heuchera

**Micrantha Cristata.** (New.) This superb variety originated on the grounds of Mr. Luther Burbank at Santa Rosa, California. With the growing demand for good plants for rockeries, etc., this handsome crested form is bound to become very popular. The foliage is somewhat larger than in the species *Sanguinea*, in addition to which it is most beautifully crested and covered over the entire surface with reddish hairs. The leaves have a lovely green and copper tint, this last shade becoming intensified during the autumn and winter months. The plant attains a foot in height, and forms a dense rosette of leaves. Flowers quite small, on long, slender stems; color white. We can strongly recommend this new sort to all our customers. Price each 35 cents; per dozen \$3.50.

**Sanguinea.** A dainty alpine plant indigenous to the high rocky mountain ranges of Arizona, California, etc. The plants grow in the crevices of rocks, forming dense rosette-shaped tufts of foliage from which spring long wire-like stems eighteen inches high. These are covered toward the tip with small bell-shaped coral red blossoms. Extremely hardy and easy to grow; requires the shade of a rockery or fernery, where it soon becomes a lovely object. Price 15 cents; per dozen \$1.50.

# Gerbera (Transvaal Daisy)

## A Grand New Strain of Hybrids in all Colors

THE well known scarlet South African Daisy (*Gerbera Jamesonii*) has always been regarded as one of the choicest of perennial plants. Its brilliant color and long stems, its lasting and decorative value as a cut flower, placed it in the front as a subject worthy of extended cultivation. The superb new hybrids which we offer for the first time this season are the result of the untiring efforts of a noted French Hybridist who has succeeded by crossing *Gerbera Jamesonii* with a related white South African species in introducing a splendid series of colors hitherto unknown in this class of plants. From the purest white to deepest crimson, with orange, scarlet, yellow, pink and salmon for intervening shades, we have in these new introductions one of the most meritorious additions to garden wealth which has come under our notice for a long time. It cannot be said that Gerberas are of very easy culture, but if attention to a few simple details is given, they can be grown with very little trouble.

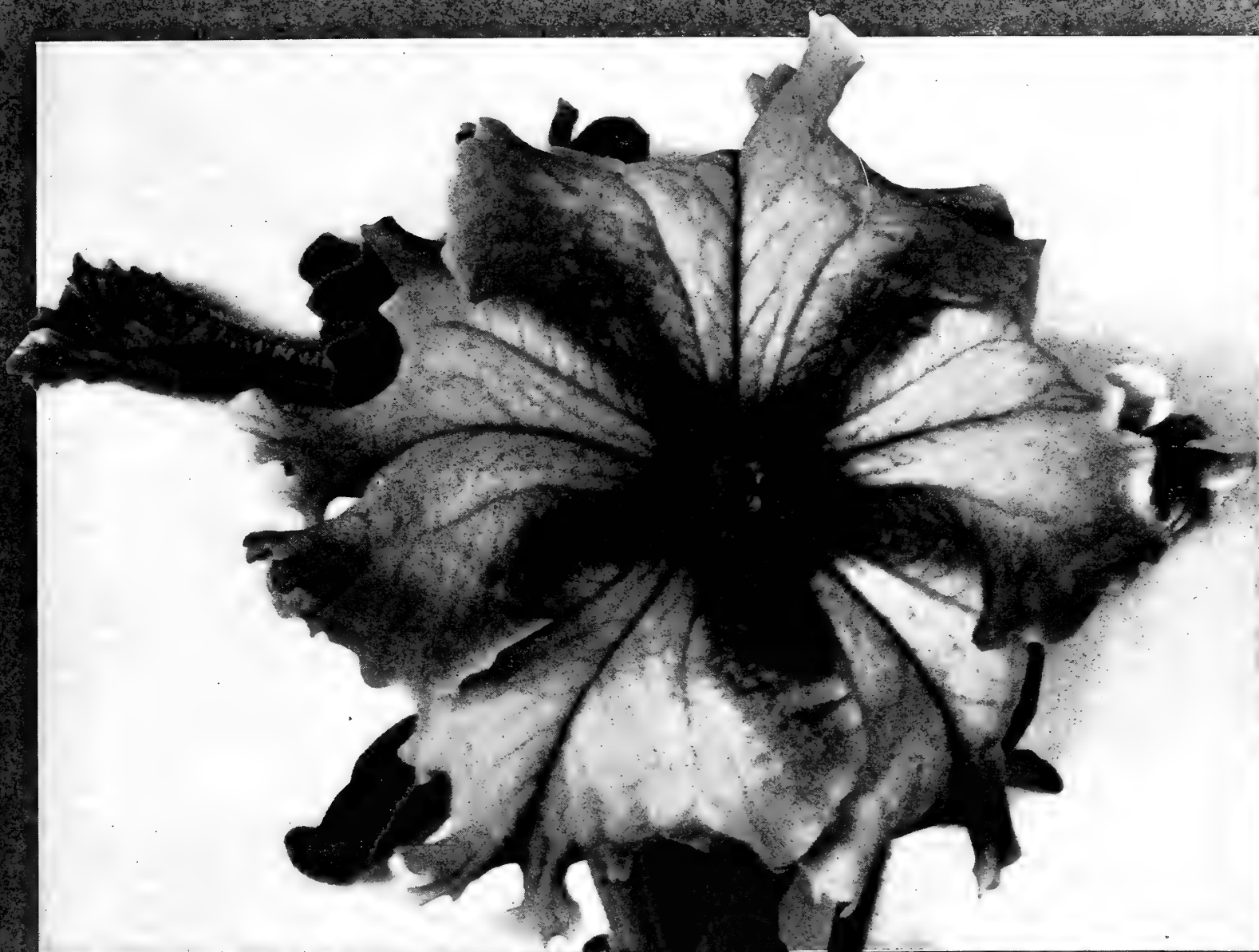
The main essentials in their cultivation are a rich soil, good drainage, a sunny situation, with the exercise of great care not to have any soil collect in the crown of the plant. The base of the plant must be even with the surrounding ground or damping off will surely follow.

The engraving on page 39 conveys a fair idea of these new Gerberas, although as with all half tone engravings, the color values are entirely lost; they must be seen to be appreciated.

Price, strong young plants, mixed colors, each 35 cents; per dozen \$3.50.

**Jamesonii.** This beautiful South African plant has taken a foremost position among the newer garden plants. The flowers are an intense scarlet color, with much the same shape and size as the Shasta Daisy. They last fully a week in a cut state, and lend themselves admirably to decorative work of all kinds. Price, each 35 cents; per dozen \$3.50.





GIANT SINGLE FRINGED PETUNIA

### Hemerocallis (Japanese Day Lilies)

For the margins of ponds or in the open border these lovely Japanese plants are of especial value. They form tufts of long, narrow foliage, surmounted by large trumpet-shaped blooms. They are of perennial duration and require but little care beyond watering.

#### FOUR VERY FINE VARIETIES

**AURANTIACA.** Very sweetly scented. Flowers extra large, displaying to great advantage its bright golden yellow color. Each 35 cents.

**AURANTIACA MAJOR.** The giant of all Hemerocallis. Enormous trumpet-shaped blooms, in the richest shade of orange. Each 50 cents.

**FLORHAM.** A splendid pure yellow variety, medium size. A strong grower and persistent bloomer. Extra fine. Price, each 25 cents; per dozen \$2.50.

**SOVEREIGN.** A medium shade of yellow, blooms of good size and freely produced. Each 25 cents.

**THUNBERGII.** A late flowering sort, with delicate lemon yellow flowers, sweetly scented. Each 20 cents.

### Hunnemannia

**Fumaerifolia.** The yellow Mexican Poppy with bright golden yellow flowers, two to three inches across. Price, each 15 cents; per doz. \$1.50.

### Isatis

**Glauc.** (New.) A very handsome new perennial with prostrate silvery white foliage. The inflorescence is of a unique character. The flower stems reach a height of two feet, are much branched, and are literally covered with masses of minute golden yellow blooms. The plant in bloom is very feathery in appearance. Its brilliant coloring arrests attention at once. Price, each 15 cents; per dozen \$1.50.

### Hollyhocks

The varieties we offer are from a prize-winning European strain. The blooms are perfectly double and well arranged on tall, handsome spikes. As a back row plant in herbaceous borders, Hollyhocks have few equals. Being of perennial duration, they require but little more than ordinary good garden cultivation. Fine strong plants, in assorted colors, each 25 cents; per dozen \$2.50.

## Lantanas

The new dwarf, compact types of Lantanas are so extremely useful as bedding plants that each season sees an increased demand for them. These extra dwarf sorts, which originated in France, are unsurpassed in quality. The trusses are much larger than those of the older climbing kinds, and the neat, compact plants are always covered with bloom. They rarely exceed twelve inches in height, and begin to bloom when very small, making an unbroken carpet of flowers from early spring to late fall.

For hot, sunny positions they are unrivalled, and do well with less water than most garden plants.

### NEW SORTS

Price each 15 cents;  
per dozen \$1.50.

**Crusallis.** A very dwarf, spreading, golden yellow, rarely exceeding ten inches in height. A splendid bedder.

**Jannia.** The first really good pink Lantana to date. The shade is soft and delicate and the effect of a bed in bloom is most pleasing to the eye.

### General Collection

Price 10 cents each;  
\$1.00 per dozen.

**Amiel.** A very dwarf variety, with brilliant orange red flowers, which shade to a golden yellow at the center. Fine in habit and produces an endless profusion of flowers.

**Cicerone.** Copper and golden yellow, prettily blended. It has the same dwarf habit which makes this class so valuable.

**Seraphine.** Quite dwarf in habit, with flowers of a glistening shade of rose, merging to yellow at the center. Very distinct and very beautiful.

**Tethys.** A lovely cream color, shading to canary yellow.



Extra large size blossoms and produced in such abundance as to completely cover the plant.

**Radiation.** Dwarf in habit, with nice foliage. Color brilliant red, with the center orange yellow. An extra good bedder. Each 10 cents; per dozen \$1.00.

**Snow Queen.** Undoubtedly the finest white in existence; it combines large size, purity of color and very dwarf habit.

**Delicatissima.** One of the most effective of trailing plants. The growth is long and slender, with single shoots reaching a length of several feet. It is extremely useful for covering steep, sloping banks making a dense mat of foliage, completely hiding the ground, and covered during the main part of the year with small umbels of soft lavender pink blooms. It does well in hanging baskets, window boxes, etc. Price each 10 cents; per dozen \$1.00.

Lobelia

**Queen Victoria.** A grand hardy perennial variety which attains a height of two to three feet. The stems are surmounted by intensely rich cardinal crimson flowers, well offset by the deep bronze of the foliage. Planted in a group by itself it produces a brilliant color effect, pleasing to the eye, and adding much to the attractiveness of the garden. Plant in full sun in a good rich soil. Needs plenty of water. Price, each 15 cents; per dozen \$1.50.

**New Hybrids.** A distinct strain of the *Cardinalis* type, containing shades of light scarlet, salmon, pink, etc. The foliage is much the same as in the preceding variety, with about the same height of growth. Price, each 15 cents; per dozen \$1.50.

Marguerites

These well known plants are favorites with every one and are of great value for border decoration along the margins of drives, etc. They bloom throughout the year in California and require but little attention. The new variety Mrs. Fred Sander is a most welcome addition and has proved to be a wonderfully fine thing for bedding and cutting.

A Magnificent Novelty of 1912

MRS. FRED SANDER

This superb variety came from Europe last year. It has created a sensation wherever exhibited, owing to its great beauty, and in that it marks an unheard-of departure in these plants. The color is snowy white; the growth is free; the stems long. It is in fact a plant which will eventually find a place in every garden, large or small. During the cool months of late autumn and winter it throws a percentage of single flowers along with the doubles, but during spring and summer fully ninety per cent are perfectly double. Price, strong three inch pot plants, each 20 cents; per dozen \$2.00; per hundred \$12.00. Plants from two-inch pots, each 15 cents; per dozen \$1.50.

**Giant White.** A very large single variety, with extra broad petals of the purest white. Each 10 cents; per dozen \$1.00.

**Giant Yellow.** A fine companion to the above, the blooms being of a pleasing deep yellow color.

**Queen Alexandra.** A great advance in the improvement of the Marguerite and an approach toward a double form. The center, which in other Marguerites is yellow, is in this variety filled with a miniature growth of white petals; it produces the impression of a double flower. Each 10 cents; per dozen \$1.00.

**Blush Queen Alexandra.** Obtained as a sport from the well-known Queen Alexandra variety. The flowers are very large, pure white in the outer petals and a blush tint in the cushiony-like center. The plant is very compact in growth and lends itself admirably to any of the uses to which the white ordinary form can be put. Price each 15 cents; per dozen \$1.50.

Papaver

**ORIENTALIS.** A grand strain of choice mixed hybrids of the Giant Oriental Poppy. These poppies constitute one of the most magnificent of perennial plants, and if given anything like proper conditions they last for many seasons with an increase of bloom and beauty each year.

The flowers in the larger types attain a size of ten inches in diameter or over. The colors are intensely rich and vivid, principally in shades of orange scarlet, orange, salmon, etc. They require a fully exposed sunny bed with a rich, light soil and plenty of water. If well cared for, the flower stems reach a height of three to four feet. Price each 20 cents; per dozen \$2.00, two-inch pots.

Penstemons

The newer and improved types of these hardy perennial plants are wonderfully effective in the garden. They are constantly in bloom, and in addition to their decorative value in this respect they make elegant cut flowers. Those who have never grown the selection we offer below have a pleasant surprise in store.

A FINE NEW STRAIN

**SENSATION.** A superb selection with enormous Gloxinia-like flowers, in all colors from white to deep crimson, the intervening shades of pink, scarlet, purple, rose, etc., with their variously mottled and penciled throats complete a color series of matchless beauty. The plants have heavy, leathery foliage and stiff stems. The spikes of bloom are close set and extra long. Price each 15 cents; per dozen \$1.50.

**Digitiflora.** A very handsome white flowered species with much smaller blooms than those noted in the foregoing hybrid section, but which also blooms in much greater profusion.

No herbaceous garden should be without a few plants of this distinct and beautiful sort.  
Price, strong clumps, each 20 cents; per dozen \$2.00.

In addition to the foregoing we are able to offer this season fine plants of the following native Californian Species of Penstemons:

- Centranthifolius.** With small bright carmine flowers.
  - Heterophyllus.** Rose purple flowers.
  - Spectabilis.** Rich metallic blue, large and fine.
- Price of any of the above three, each 20 cents; per dozen \$2.00.

Petunias

We have devoted a lot of work and careful attention to our strains of these beautiful subjects, and in point of quality, doubt if they can be excelled. In California they bloom without intermission for the greater part of the year, and produce a very bright effect. When greenhouses are available they make excellent pot plants for winter blooming. Petunias delight in a rich, loamy soil, and require a fully exposed sunny situation. The plants will last for two seasons, but as they become rather woody after a single season's growth, it is better to procure new plants each year, or strike a fresh lot from cuttings.

Single Fringed

A lovely strain of medium-sized, compact growing bedding petunias; the flowers, although not large, are borne so freely that they completely cover the plants. Price each 10 cents; per dozen \$1.00. Ready in March for summer blooming.

Double Fringed Petunias

**DRIVEN SNOW.** A superb double pure white fringed bloom. The plant is dwarf and compact; a splendid variety for bedding or pot work. This is a seedling of our own raising, and we doubt if a better type can be found anywhere.



**LAVENDER QUEEN.** (See cut.) A beautiful new double-fringed pale lavender Petunia of our own production. Price each 20 cents; per dozen \$2.00.

**DOUBLE PINK.** Pure rose pink in a lovely fringed and ruffled bloom.

**DOUBLE CRIMSON AND WHITE.** The blending of crimson and white makes a most attractive flower.

**DOUBLE ROSE EDGED WHITE.** Deep rose with delicate edgings of pure white. A novel and rare color combination.

Price of any of the above double Petunias, each 15 cents; per dozen \$2.00, unless otherwise noted. Plants ready in April.

## Primulas

These lovely alpine winter and spring flowering plants offer one of the most attractive groups of hardy plants. With few exceptions, they come from the various high mountain regions of the northern hemisphere. They withstand considerable cold, and in well prepared Rockeries, Ferneries, etc., they give a dainty touch of color at a season when few other plants are in bloom. Nearly all the varieties make splendid pot plants for the conservatory or greenhouse, especially in Chinese types. Their cultivation is simple, the main requirement being a moderate temperature, plenty of moisture, with attention to perfect drainage, and a rich friable soil containing a liberal proportion of peat or leaf mould.

**Chinensis.** The well known Chinese Primrose in one of the finest large flowered races in cultivation. Blooms of elegant fimbriated form; colors from pure white to deepest red, including such shades as salmon, lavender, etc. Fine blooming plants from five-inch pots, each 35 cents.

### A FINE NEW HYBRID

**KEWENSIS.** A remarkable and distinct hybrid which originated in the Royal Gardens, Kew, London. It is one of the most striking and useful additions to the list of hardy Primulas sent out for many years. The flowers are freely borne in whorls on stout stems eighteen inches to two feet high; they are a rich buttercup yellow in color. The leaves form a rosette shaped plant, are large and prettily undulated at the edges.

This new sort is going to prove a fine thing for shady beds and ferneries, where quite often it is difficult to obtain plants which will bloom freely and give the needed touch of color required. Price, fine plants, each 20 cents; per dozen \$2.00.

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**MALACOIDES.** A striking new Primula introduced from China last season.

The flowers are borne around the central stem in dense whorls with several of these to each stem.

It reminds one of a gigantic form of Primula Forbesii but with brighter colored and much larger blooms.

This handsome species will be of great value for shady rockery planting or for growing in pots as an ornamental flowering plant.

Price, each 20 cents; per dozen \$2.00.  
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**Obconica.** (New Hybrids.) A beautiful strain, with colors ranging from almost white to lavender, rose, purple, etc. Always in bloom and well adapted to shady beds, etc. Young plants, each 15 cents; per dozen \$1.50. Strong, each 20 cents; per dozen \$2.00.

**Obconica Gigantea.** An elegant novelty, with flowers far larger than any of its type. These are disposed in trusses, carried well above the sturdy dark green foliage. The leaves are arranged in rosette form and offer a fine setting to the graceful trusses of bloom. Price each 15 cents; per dozen \$1.50.

**Veris.** The true old fashioned English Primrose, in a very fine, large flowered strain, containing all colors from white to dark crimson. The yellow and variegated types in the series are especially rich in color. These make excellent border plants for shady beds. They last for several seasons with an added quality to the display each year. Hardy and easily grown. Price, each 10 cents; per dozen \$1.00.

## Pyrethrum

**Roseum.** This elegant class of hardy perennials is practically unknown to California gardens, although one of the most useful of winter and spring blooming plants. The flowers of the single forms much resemble a giant Marguerite, and occur in a color series from pure white to dark crimson, including all shades of pink, rose, etc. The doubles are about the same size and shape as noted in an anemone flowered chrysanthemum, with the same range of color as the preceding. The foliage is fern-like in appearance. The plants are decorative even when out of bloom. Beautiful as cut flowers. Price, strong one-year clumps, each 20 cents; per dozen \$2.00.

## Rudebeckia

**Golden Glow.** A grand hardy perennial plant, which produces immense quantities of golden yellow dahlia-like flowers during the fall months. It is of easy culture and very ornamental. Height six to seven feet. Each 15 cents; per dozen \$1.50.

## Russellia

**Lemoinei Multiflora.** A lovely plant for baskets on account of its graceful drooping habit. The long, wiry stems are covered with small tubular, coral-red blossoms. Fine plants from 2½-inch pots, each 15 cents; per dozen \$1.50.

## Salvia

The scarlet sage is one of the brightest plants for summer bedding. Plants may be set out as soon as danger of frost is over—in this section about April 1. They begin to bloom shortly after being planted, and continue an unbroken mass of color until winter frost destroys them. For long borders or solid beds they are effective to a degree. They give a lavish profusion of bloom with a minimum amount of trouble.

**Fireball.** Of splendid dwarf habit and exceeding brilliancy of color.

**Drooping Spikes.** Compact in growth with spikes prettily arched.

Price of the two foregoing varieties, each 10 cents; per dozen \$1.00; per 100 \$6.00; two-inch pots. Ready March 1.

**Azureus.** A lovely species, native of the Rocky Mountains, the plants of which attain a height of four feet.

They are composed of numerous tall spikes which are literally covered with small sky-blue flowers.

This plant does finely in California and when better known will be largely sought after for it is certainly an exquisitely beautiful wild-flower.

Price, each 20 cents; per dozen \$2.00.

**Apple-Scented.** Another handsome species of which we are in doubt regarding its correct specific name, consequently we have named it Apple-Scented because of the rich decided apple-like scent of its bright carmine-rose blossoms.

The plant is of a somewhat shrubby nature, and is constantly in bloom.

Price, each 15 cents; per dozen \$1.50.

## Statice

Among the various types of so-called "Everlasting" flowers, there are few which have the grace and beauty of the various members of the Statice family.

Their cultivation is extremely easy; the main requirements are a warm, sunny position, a soil of medium richness and rather light in character. The sprays should be cut when fully developed, and allowed to cure in a dry, shady place. They will then retain the characteristics of the growing specimen. For mixing with cut flowers the dainty sprays of the various Statice are especially valuable, and owing to their lasting nature are superior to Gypsophila.

**Latifolia.** The great sea lavender. Leaves very broad and long, forming a low growing, tufted, rosette-shaped plant from which issues a strong, much branched growth, completely covered with dainty, pale blue flowers. For mixing with cut carnations it is especially valuable. Each 15 cents; per dozen \$1.50.

**Arborea.** A tree-like species which attains a height of some four feet. The foliage is very broad and long, and deep shining green in color. The flowers are a magnificent shade of royal purple, thick set in a truss which attains a diameter of eighteen inches or over. Aside from its value as a cut flower, a specimen in bloom in the garden is one of the most striking of garden plants. Price, each 25 cents; per dozen \$2.50.

Solidago

**Altissima.** (Golden Rod.) The giant Eastern Golden Rod does well in California, blooming profusely in late autumn. The clumps are of perennial duration, increasing in size and vigor from year to year. Price, each 15 cents; per dozen \$1.50.

Senecio

**Petastites.** This handsome flowering and foliage plant is also locally known under the name of Cineraria Maxima. The foliage, aside from its splendid yellow blooms, is ornamental to a degree. For a lawn specimen in sub-tropical gardening it is unexcelled. The flowers occur in large trusses and with the immense foliage as a foil, form conspicuous objects in the garden. Fine strong plants in five-inch pots, each 35 cents; per dozen \$3.50.

Sedum

**Spectabilis Atropurpurea.** One of the showiest of all Sedums, with thick, fleshy leaves, and large heads of rich, rosy crimson flowers. It reaches a height of eighteen inches, and during the summer or fall months is covered with fine trusses of bloom. A unique rock or border plant. Price, big clumps, each 25 cents; per dozen \$2.50.

Tritoma

RED HOT POKER

For summer and fall blooming there are few plants more stately in appearance than well grown clumps of Tritomas. Their large torch-like spikes of bloom, reaching up to six feet in height, and fine grassy foliage make them conspicuous objects in the garden.

They associate well with the various grasses, cannas, bamboos, etc., in jungle effects, and do splendidly on the margins of artificial water courses and ponds. Once planted, they increase in beauty each season, and require nothing more than plenty of water, any good garden soil and full sun.

SIX FINE VARIETIES

**Chrysantha.** Color bright lemon yellow; height four to five feet. A scarce and distinct sort. Price, each 25 cents; per dozen \$2.50.

**QUARTINIANA.** A giant variety which attains a height of six feet and over. The color on opening is orange red; as the spike matures, the lower part changes to yellow. A rare and beautiful sort. Price, each 35 cents; per dozen \$3.50.

**Pfitzerii.** A constant blooming sort, with spikes four feet in height. Orange scarlet in color. A fine thing any way you take it. Each 20 cents; per dozen \$2.00.

**R. Wilson Ker.** Bright orange scarlet, with large spikes, freely produced through a long period. One of the best. Price, each 25 cents.

**Rufus.** Medium in growth. Chrome yellow, passing to light yellow. Each 25 cents.

**Star of Baden-Baden.** Fully up to Quartiniana in size, with broad heavy foliage and magnificent spikes of light orange and scarlet flowers. Very scarce and desirable. Price, each 50 cents.

Our New Strain of Fringed and Semi-Double  
Shasta Daisies

WE offered these new types of Shasta Daisies to our customers last season, and are able to infer from reports received from purchasers that they have given good satisfaction.

This strain is the result of over five years of careful selection, and the roguing of thousands upon thousands of plants, representing a vast amount of attention and labor, but more than justified by the fact that our efforts were successful, and in that we have given an added wealth to the garden and increased pleasure to those who appreciate the beautiful in nature.

The older Shasta Daisies possessed but a single row of petals; these were rounded at the ends, and in general, narrow in shape. The new types we are offering vary from the spatulate and bifurcate flowers of single fringed-like form, to massive, broad petaled semi-doubles, with six to eight rows of petals, snowy white in color. Many of the semi-doubles have a cushion of small petals at the base of the larger ones, giving the bloom a unique anemone-like appearance, and reducing materially the size of the yellow disc-like center.

**NEW ANEMONE FLOWERED SEMI-DOUBLES.** Showing the cushion-like growth at the base of the petals. A lovely variety. Price, each 25 cents; per dozen \$2.50.

**SINGLE.** A much improved single variety of our own growing. Flowers very large and of excellent form. Price, each 10 cents; per dozen \$1.00.

**NEW FRINGED VARIETIES.** Propagated from selected plants showing this new character, and having large blooms. Price, each 25 cents; per dozen \$2.50.

**NEW GIANT SEMI-DOUBLES.** From selected plants only, with flowers of massive size and splendid form. Price, each 25 cents; per dozen \$2.50.

**CULTURAL NOTE:** Plant in full sun eighteen inches apart each way. Mulch with well-rotted manure three or four times a year.

Give plenty of water in dry weather. Divide the clumps every two years, resetting the small divisions.

Verbenas

There are few plants more desirable for bedding purposes than verbenas, affording, as they do, a bright and lasting mass of color during the greater portion of the year. The varieties we offer are all the mammoth type of flower, have been propagated from cutting and are pot grown.

**Beauty of Oxford.** Deep rose pink, with immense trusses and individual florets of the largest size. Per dozen 75 cents; per 100 \$5.00.

**Miss Ellen Wilmot.** A new variety from England, with enormous trusses. The color is a lovely cerise pink. It blooms with remarkable freedom, and we feel certain that when it becomes known it will be as freely used for parkings, margins of walks, drives, etc., as the ivy-leaved geranium Chas. Turner. Price per dozen 75 cents; per 100 \$5.00.

**Mrs. Cleveland.** The largest and best of all white sorts. A true mammoth in both truss and individual floret. Price per dozen 75 cents; per 100 \$5.00.



#### DOUBLE VIOLETS

**HOWARD & SMITH'S SCARLET.** This variety of our own raising is one of the most magnificent verbenas ever sent out. We first distributed the stock in 1900, and it has since that time been widely disseminated. For massing it is unsurpassed, producing a vivid sheet of color. Flowers and trusses immense; color blood red and velvety in texture. Per dozen 75 cents; per hundred \$5.00.

#### Violets

**Undine.** (New.) A magnificent new double violet, with rich dark blue flowers and exceptionally long stems. It is intensely fragrant, far exceeding in this quality any other violet. Price, each 10 cents; per dozen 75 cents.

**Marie Louise.** Large double blue flowers, intensely fragrant and very free. Later in bloom than single sorts. Price, per dozen 50 cents.

**Princess of Wales.** A magnificent single and the largest violet in cultivation. The flowers open out flat, similar to a pansy; are deliciously fragrant and extra long stemmed. Strong 2½-inch pot plants, per dozen 50 cents.

**Swanley White.** This variety is a perfectly double pure white and very fragrant. Double violets have far more perfume than single and a small bed will scent a whole garden. Per dozen 50 cents.



# Bulbous and Tuberous Rooted Plants

## AMARYLLIS

### HOWARD & SMITH'S NEW HYBRIDS

This magnificent new strain of Amaryllis which we offered to our customers in the autumn of 1911, is the ultimate result of the scientific application of the laws of hybridization extending over a period of several years.

We began operations by obtaining the best varieties we could buy, paying as high as ten and twelve dollars for single bulbs. With these as a nucleus we bred them with a definite object in view, considering form, size and color.

The first generation seedlings were far from our idea of perfection, but showed an advance in a few varieties over the parent stock. From the best of these other hybrids were raised, and the same process repeated through several later generations until our present magnificent strain became a fixed fact.

Any attempt to describe them, even with the most glowing adjectives, would fail to convey an adequate idea of their surpassing beauty. They range in color from the pure white ground color, with its markings of rose, red, etc., to rich orange-scarlet, cherry, bright red, crimson, maroon, mottled, striped, etc.

We have them in pure self colors without a tinge of green, either in the throat or reverse side, and all with a satin-like lustre which in the deeper shades shines as though burnished.

The shape of the bloom is flat and spreading with full rounded and overlapping petals, offering in this respect a vast improvement over the parent types.

The entire strain bears flowers of phenomenal size, blooms averaging nine to ten inches in diameter, with five and six to a single stem frequently occurring.

The stems attain a height of three to three and one-half feet, displaying the blooms to great advantage. There is one factor of great importance regarding these Amaryllis, and that is they are of the easiest possible culture; they will prove splendid subjects for sunny beds in any prominent part of the garden, arresting attention at once and blooming year after year, vigor increasing with age.

They are eminently adapted for pot culture, and when so grown are beautiful subjects for the conservatory and greenhouse. A careful perusal of the cultural note below will explain how simple the treatment is which they require.

We feel that those who appreciate something choice and new in flowers will find in these new Amaryllis one of the most welcome and beautiful additions to their garden.

The illustration of the field in bloom conveys but a meagre idea of the effect,—that of the single bloom is much reduced, as will be noted by the measure in inches at the top.

The prices quoted are fifty to seventy-five per cent lower than anything of like quality to be obtained from European collections. They are the result of seven years' persistent labor and heavy expense incidental thereto.

It might prove an interesting item to state that in 1910 we purchased twelve bulbs which were the prize winners at the exposition in Brussels, Belgium, paying for the twelve the sum of \$108.00. We bought these for the express purpose of getting new blood for hybridizing purposes. The plants flowered freely last spring, but the quality was so inferior to our own best varieties that we did not use them.

#### PRICES:

**Class A.**—First size selected flowering bulbs which will bloom this spring; perfect in color, form, size and substance, every one a gem; assorted colors. Each \$2.00; per dozen \$18.00.

**Class B.**—First size selected bulbs, full flowering size, not so perfect in form and color but superior to any other strain on the market; assorted colors. Each \$1.50; per dozen \$12.00.

**Class C.**—First size selected bulbs, full flowering size, consisting of the better selections of the earlier generations of the strain with splendid large flowers; assorted colors. Each 50 cents; per dozen \$5.00.

**Note.**—Not less than six bulbs of the above strains at the dozen rate. Customers will find a trip to Montebello during their spring blooming season well worth while.

**CULTURAL NOTE: Pot Culture.** The bulbs require a seven or eight-inch pot, according to their size, and should be potted so that the neck of the bulb is above the surface of the soil; it will not harm if the upper rounding surface of the bulb is exposed. Place plenty of crocks over the hole in the bottom of the pot to insure good drainage; use a rich compost in potting consisting of one-fourth rotted cow manure and three-fourths of good light loam; water thoroughly after potting and place in a cool sheltered position for two or three weeks. As soon as growth begins remove to greenhouse, conservatory or a light, sunny window, keeping them moderately moist at all times. The flowers will show in all their wonderful perfection in seven to eight weeks after potting up. When through blooming plant out in garden. This recuperates the bulbs, and the same operation may be repeated the following fall or winter. They are more easily grown in pots than Easter Lilies and are far more showy.

**OPEN GROUND CULTURE.** Plant the bulbs in any good garden soil which has had plenty of rotted manure added and been thoroughly mixed together. Select the bed in any fully exposed sunny position, plant them so that the top is even with the surface of the soil. When growth begins give water in sufficient quantities to keep the bed moist at all times. Irrigate, don't sprinkle. When the buds appear a shading of cheesecloth will give highly perfected colors, although not absolutely necessary.

In California and other sections of similar climate the bulbs may remain in the same position for three years, after which they may be taken up, divided and reset.

In climates where the ground freezes, take up every autumn and treat as noted under pot culture, or hold dormant until spring and plant out for later flowering.

**Belladonna.** Lovely rose pink, with a lighter colored throat. As this variety loses its foliage before the flower spikes issue forth, care must be taken not to disturb the bulbs at this period. August is its time of flowering. Mammoth bulbs, each 20 cents; per dozen \$2.00.

**Formosissima.** An original species native of Mexico, with narrow reflexed and spreading petals. The color is an intensely rich deep crimson. This variety is of superb effect when used as a cut flower, and forms attractive masses of color in the garden as well.

Price, each 35 cents; per dozen \$3.50.

#### Apaunghtas

**Umbellatus.** Among the various summer flowering bulbs there are but few which grow as easily or are more constantly effective in the garden than well grown clumps of Agapanthus.

The variety in question produces a continual succession of strong flower stems each crowned with large umbels of deep blue flowers.

A splendid effect is obtainable by planting them in lines, and they also make very effective tub specimens.

Price, strong plants, each 25 cents; per dozen \$2.50.

**Umbellatus Alba.** A somewhat rare pure white form of the preceding variety. Price, each 35 cents.

#### Begonias

##### TUBEROUS ROOTED

Our collection of these lovely flowering plants is very fine. The strain we offer is erect flowering; stems stout, plants dwarf and sturdy. The varieties offered are distinct and beautiful, and those who try the strain will be pleased with their mammoth size, perfect form and exquisite finish and coloring. During the



FIELD VIEW OF OUR NEW GIANT AMARYLLIS

past year visitors to our nurseries were greatly surprised at the size of the individual blossoms of this strain. We had doubles fully six inches in diameter and bearing a nearer resemblance to immense roses or double hollyhocks than begonias.

There is one point to which we desire to call our customers' attention, and that is the matter of price on the tubers offered. There are numerous cheap strains on the market which may be purchased for less than half of the price we quote, but there is absolutely no comparison in the matter of quality. In some of the best foreign collections, single tubers of named varieties are often listed at \$2.00 each. These we offer are seedlings from the finest named varieties, selected while in bloom. The prices are low, if quality is a consideration. We do not grow second class strains of any kind.

### Fine Single Varieties

These are a very high class strain; the flowers are perfectly round, massive in size, with plants of uniform compact build

and height. We can offer the following colors: white, yellow, pink, scarlet, salmon and orange. Price, each 15 cents; per dozen \$1.50.

### Choice Doubles

An exceedingly choice selection of doubles with all colors from pure white through the softest tones of pink, rose and salmon to fiery scarlet and vivid crimson. Flowers of magnificent size and form. White, salmon, crimson, scarlet, yellow and pink. Price, each 25 cents; per dozen \$2.50.

### New Single Frilled Varieties

See Cut page 50.

One of the prettiest types to be found in Tuberous Begonias. The edges are frilled or serrated after the style of fine petunias. Mixed colors. Price, each 25 cents; per dozen \$2.50.



TYPES OF OUR NEW GIANT AMARYLLIS



## New Cristata (Crested) Section

A distinct new type of Tuberous Begonia with single flowers of large size, bearing on each petal a dense crest of curiously twisted threads. The crest enhances the beauty of flower and gives an effect different from that in any of the other classes. Mixed colors, each 20 cents; per dozen \$2.00.

**IMPORTANT NOTE.** Each season we grow a large number of plants in three-inch pots, which are ready for delivery from May 1 on. We make no advance charge for these plants; they are the same price as dry tubers. Customers will save the trouble of having to start them, and insure an even growth in planting out. We strongly recommend this method of handling.

**CULTURAL NOTE:** If there is any plant grown which is of easy culture, it is certainly the tuberous begonia; and yet there are few others in which as many failures occur as in the growing of these beautiful subjects.

To begin with, the same conditions accorded ferns suits them admirably; they require a very rich soil, with plenty of moisture, but above all a well shaded position where the bed has been raised to insure good drainage.

As soon as tubers are received in the spring, plant them in shallow boxes or flats, using a rather light mixture of sand, leaf mould or peat, mellow loam and well-rotted cow manure in the proportion of one-quarter sand, one-quarter peat, one-quarter cow manure and one-quarter loam. Mix well and place in the boxes to a depth of four inches; level off and firm well. With this complete, insert the tubers about four inches apart each way, covering the crown with one-half an inch of the same mixture.

Place the boxes in a warm, shady greenhouse or lathhouse, keeping the boxes moderately moist at all times. They soon start to grow, and when they attain a height of three to four inches they may be cut in squares with a sharp knife and transplanted to a shady bed on the north side of a building, a north wall, or under a well vined pergola; planting a distance of fifteen inches apart each way.

Begonias do not do well in pots in this climate, or at least do not compare in quality with those grown in the open ground. By the method of culture referred to they make a magnificent display from June to November.

## Caladium

**Esculentum.** Commonly known as "Elephant's Ear," and a very useful plant where a heavy foliage effect is desired. It requires plenty of moisture and is a very tropical looking plant when fully grown. Excellent as a border to canna beds. Strong young bulbs, each 15 cents; per dozen \$1.50. Extra strong, each 25 cents; per dozen \$2.50.

## Calla Lily

**Richardia Aethiopica.** The well known Lily of the Nile. Strong flowering roots, each 10 cents; per dozen \$1.00.

**Richardia Elliottiana.** The golden calla. Flowers deep golden yellow. Foliage beautifully maculated with white on a green ground. Very scarce. Each 35 cents.

## Clivia (Imantophyllum)

**Miniatum.** A rare bulbous plant from South Africa, similar in many respects to Amaryllis, but with handsome dark ever-green foliage. The bloom resembles in size and shape those of Amaryllis Belladonna, but the color is a deep rich orange.

This magnificent species does well in the open garden in a shady position free from frost. Of easy culture as a tub plant and very decorative. Rare. Price, strong blooming plants, each \$1.25.

## Gladiolus

The remarkable improvements made in gladiolus during recent years, and the numerous fine strains now obtainable, have served to greatly increase the culture of these lovely summer flowering bulbs. We grow a large quantity of bulbs each year, and the strain is exceptionally fine. All poor sorts have been carefully rogued out, and we feel certain that the stock offered will please the most critical.

It will be noticed that the prices quoted are higher than gladiolus may commonly be purchased for, but the strain is incomparably superior to the cheap grades usually sold. It is a well understood fact that the ratio of increase in the bulbs of a fine strain is much slower than with the common, weedy types.

**America.** The peer of all gladioli; a strong, vigorous grower, with large, well-opened flowers, borne on strong spikes, three to three and one-half feet long. The color is a magnificent shade of soft pink, similar to that seen in some of the Cattleya orchids. There is no necessity to speak of its merits as a cut flower beyond the fact that its popularity is widespread both in Europe and America, and stocks running into millions of bulbs have been distributed. Our stock of bulbs is of our own growing, and is of fine quality. Price, each 10 cents; per dozen \$1.00; per hundred \$7.50.

**MRS. FRANCIS KING.** A striking new light scarlet gladiolus of immense size and substance. The blooms open out flat, with a large number on the spike open at the same time. As fine a thing in scarlet as America is in pink. We offer a fine stock of big bulbs of our own growing. Price each 15 cents; per dozen \$1.50.

**Mixed Hybrid Seedlings.** We offer under this head a selection of varieties, which for size, coloring, etc., cannot be surpassed. Spikes of immense size, and blossoms of mammoth proportions. The strain contains all shades, from light to dark. We feel no hesitancy in recommending these to all lovers of choice bulbous plants. Each 10 cents; per dozen \$1.00; per hundred \$6.00.

**CULTURAL NOTE:** Be careful to plant the bulbs so that the top is three inches below the surface of the ground. They delight in a rich, light soil, and require an abundance of water during the growing period, providing the weather is at all hot. They will repay any extra attention shown them.

## Iris

The varieties which we offer below comprise a very select collection of these lovely, hardy plants. The surprising range of color which they offer and their adaptability to so many different uses, place them in the front rank of our hardy garden plants. For the margins of woodland walks, shrubbery borders, wild gardens or near ponds, they are unexcelled. They are also valuable for cut flowers, as they possess a grace and beauty which is all their own.

## Iris Germanica

### NEW GIANT FLOWERED VARIETIES

### Novelties for 1913

**Alcazar.** A typical new giant flowered Iris with very wide petals in both standards and falls.

Color violet purple and blue. Extra fine. Price, each 35 cents.

**Edward Michel.** A gigantic sized bloom of the deepest violet purple. Price, each 35 cents.

**Eldorado.** A curious and unique new shade in this class of Iris, being yellow overlaid with blue.

This splendid novelty produces fine long stems and is destined to become very popular as a cut flower variety.

Price, each 35 cents.

## Recent Introductions

The following set are the varieties which we sent out a few seasons ago; each spring they have flowered in great masses at our nurseries and have won the admiration of everyone.

This new giant flowered race of Iris is certain to become one of the most useful of all our spring flowers; with the recurrence of each season they flower in great profusion, require but little attention, and furnish blooms of a character which rival Orchids in beauty.

Price of any of the following: each 25 cents; per dozen \$2.50.

**AMAS.** A strong, vigorous variety. Standards lavender blue. Falls light blue.

**CAPRICE.** Immense blooms violet blue.

**ISOLENE.** Standards pale lavender. Falls light purple overlaid with brown, beard yellow.



NEW FRILLED TUBEROUS BEGONIA

**JEANNE d'ARC.** A lovely pure white with the outer edge of the falls and standards penciled light blue, very fine.

**KHARPOT.** Violet, very large and fine.

**LOUTE.** Standards lilac. Falls deep blue.

**TAMERLANE.** Foliage heavy. Standards light blue; falls purple.

### Iris General Collection

Price, unless otherwise noted, each 15 cents; per dozen \$1.50. This price is for strong divisions.

**Dolphin.** Standards rich lavender blue. Falls purple with lighter shadings at the edges of petals.

**Doris.** Standards light purple. Falls blackish purple. Beard golden yellow.

**Ivory.** Ivory-white self, with distinct yellow beard. Flowers very large, early in bloom, and distinct in form from all other intermediate Iris.

**Josephine.** A Hybrid Alpine Iris of great beauty, forming dense tufts of long, narrow foliage, and produces in early spring endless quantities of pure white flowers. Falls rather short, with standard bold and erect. Extra.

**Mrs. Reuthe.** Among the strong-growing, large-flowered types of German Iris there is nothing to surpass this exquisite variety. It is a gem for cutting purposes, and its delicate color makes it especially desirable for cut-flower use. Color is a delicate shade of lavender blue, with falls somewhat lighter in color. It will be difficult to conceive anything more beautiful than a bouquet of this variety.

**Odin.** Standards delicate lavender white. Falls splashed and lined with blue. Beard light yellow. Exceptionally fine.

**Queen Flavia.** (Intermediate.) Standards rich porcelain blue. Falls lavender blue. A very beautiful, distinct variety. Each 20 cents; per dozen \$2.00.

**Rosine.** Standards and falls reddish purple. Foliage long and narrow. Height 2½ feet.

**Swanhilde.** A very free blooming sort with flowers of white ground, overlaid with and penciled pale blue.

**Zephyr.** Lavender-blue flowers of medium size, produced in great profusion. Beautiful in every way.

### Alpine Iris (Dwarf Varieties)

A distinct group of hybrids which grow only a few inches high. They make dense tufts of foliage from which issue during their season, large numbers of dainty blooms. A plant in full



IRIS ISOLENE

flower rarely exceeds ten inches in height. They are excellent subjects for planting in rockeries or they may be used for dwarf borders. Price each 15 cents; per dozen \$1.50.

**Diana.** A dwarf alpine Iris. Sulphur white. Like others of its class it will be found invaluable for rock work, borders, etc.

**Irene.** Yellow self. Twelve inches in height. One of the best of the yellow alpinas.

**Puck.** Standards light purple. Falls deep claret, veined with white at the base.

**Nimrod.** Standards deep purple. Falls claret purple. Very dwarf, scarcely exceeding ten inches in height, and forming dense tufts of foliage surmounted in early spring with numerous medium-sized blooms. A gem for rockery or garden purposes.

**Turk.** Medium tall grower with primrose standards. Falls beautifully veined purple on light colored ground.



**Jupiter.** A lovely Miniature alpine iris. Standards and falls are beautiful golden yellow. A gem for borders or rock work.

**Amy.** Long grassy foliage surmounted by delicate miniature blooms. Standards white. Falls white stained with purple.

**Obelisque.** A distinct alpine hybrid, with falls of reddish violet and purple standards. Flowers of good size with distinct yellow beard.

**Pumila Hybrida.** An exquisite dwarf, purple flowered alpine iris. It is especially useful for borders or rockeries. It produces a wonderful profusion of blooms early in the season, being at its best during the months of January and February, at which time flowers are usually very scarce in the open garden.

**Pumila Excelsior.** Same in habit as the foregoing, but with lovely pure yellow flowers.

## Japanese Iris (Iris Kaempferi)

The latest introductions from Japan in this magnificent class of iris are marvels of beauty and stateliness. The flowers often reach a diameter of ten inches, and the colors and combinations of delicate shades, in both single and double forms, simply baffle description. Although they are among the easiest of all iris to bring to a state of perfection, both as regards quality of bloom, height of growth, etc., we doubt if more failures occur in growing any class of plants than with these, and this is simply due to the lack of understanding their requirements; these, while exceedingly simple, are too often neglected, with entire failure, or only partial success, as the result. For the benefit of our customers, we here outline our method of growing, and if followed will insure success.

**CULTURAL NOTE:** Select a plot of ground of suitable size for the number of clumps to be planted, allowing a minimum distance between the clumps of eighteen inches. Spade this over thoroughly to a depth of twelve inches, breaking all lumps, removing stones, if any, etc. Cover this with three inches of rotted cow manure, spade it and re-spade several times to thoroughly incorporate the manure.

Section off into beds four feet wide, and as long as required, with a path between of, say eighteen inches. Rake to a ridge four inches in height at the edges, so that the interior portion may be flooded with water; plant the clumps the distance above specified and cover the crown three inches deep; after planting flood with water; the beds, if well made, perfectly level and with good ridges at the edge, will hold water to the depth of three inches; after the first soaking, give water in moderate amounts only until the growth begins; when the plants attain a height of six to eight inches, they should be kept constantly wet. During the growing season, give two or three liberal mulchings of well-rotted manure; this, through the flooding method, provides them with the equivalent of liquid manure and tends to increase the height of the stems, and the beauty of the blooms. If the weather is hot a lath shading placed over the beds at a height of seven feet (the lath nailed to strips three-quarters of an inch apart) tends to lengthen the blooming period and better the quality of flowers.

Price—we offer an unsurpassed collection of about fifty varieties in all colors at 25 cents each; per dozen, \$2.50; per hundred, \$18.00.

**Orientalis.** A lovely form of Siberian Iris, with long grassy foliage and tall slender stems; fine for cutting. Color deep blue. Each, 20 cents; per dozen, \$2.00.

**Tectorum.** A lovely Japanese species with broad arching leaves and rich blue flowers; they are flat in form, similar to the Iris Kaempferi type. The crest of the flower is ivory white. Price, each 25 cents.

**Stylosa.** The blue and white forms of this lovely species begin to bloom early in October and continue through the winter season. Coming into bloom at a season when flowers are scarce makes them particularly valuable and adds a touch of color to the garden. They require partial shade for the best results. Strong divisions of either variety, each 20 cents; per dozen \$2.00.

## Ismene

**Calathina Grandiflora.** A beautiful free-blooming bulbous plant from Brazil, and one which is especially adapted to culture in warm Southern climates. The large blooms are intensely fragrant, pure white in color, with greenish bands in the base of the throat. The edges of the flowers have an irregular fringed outline which greatly enhances the beauty of the bloom. Price, each 35 cents; per dozen \$3.50.

## Sparaxis

**Pulcherrima.** A lovely species of Sparaxis from the Cape of Good Hope. Height about six feet. The dainty, bell-shaped, rose-colored flowers hang on slender, filament-like stems, and their weight causes the long stems of the flower shoot to arch gracefully. A very rare and beautiful plant. Each 50 cents; per dozen \$5.00.

## Tuberoses

**Double.** Well known and universally admired for their pretty spikes of waxy white and deliciously scented flowers. Strong roots, each 10 cents; per dozen \$1.00.



GREEN HOUSE VIEW—PROPAGATING DEPARTMENT.

The above engraving is a view of one of our large greenhouses, 25 feet wide by 180 feet long, devoted exclusively to the propagating of plants from cuttings. Each season enormous numbers of plants of all kinds are rooted, the quantity running into the hundreds of thousands. After the rooting process is completed the plants are potted into two-inch pots and removed into cold frames or other greenhouses and grown on to salable size.

# Flowering Shrubs, Ornamental Trees, Hedge Plants, Etc.

## Abelia

**Rupestris.** A fine, everblooming shrub covered throughout a large portion of the year with numerous sweet-scented pink flowers. A native of China and quite hardy on the Pacific slope.

Price, strong plants, each 75 cents.

## Acacia

**Baileyana.** One of the handsomest of all flowering trees. The foliage is fern-like in appearance and of a silvery white color. The plant in bloom is a mass of bright canary yellow flowers, distributed on slender chain-like stems. A magnificent tree for sidewalk planting, groups or single specimens. Strong plants, five to six feet high, each \$1.00; three to four feet high, each 50 cents.

**Cyanophylla.** The flowers of this variety are much larger than most other species. The foliage is quite broad and long; the flowers are bright yellow and in immense clusters. One of the best for lawns, shrubberies, etc. Fine plants five to six feet high, each 50 cents; extra large, in boxes seven feet and over, each \$1.00.

**Melanoxydon.** This is the common black Acacia, now so much used for sidewalk planting, and for this purpose it is a fine thing, providing it is used on light or gravelly soils. If the soil is heavy in nature it makes superficial roots only, and often in high winds is uprooted. Pyramidal in shape, clean in character, with a height of fifty to sixty feet. Five to six foot trees, each 35 cents; large plants in boxes, each 75 cents.

## Althea

**Frutex.** A rapid growing, flowering tree, closely allied to Hibiscus, etc. The blooms are very large, of a pleasing pink shade, and quite as double as a Peachblow Hibiscus. This species attains a height of twenty feet and over, and forming when in flower a very attractive appearance. Strong plants in five inch pots, each 35 cents.

## Astilbe

**DAVIDII.** A splendid, new, hardy plant from China, with feathery plumes of pure white flowers, two feet long. The plant attains a height of six feet, branches freely from the base, and when in bloom is an object of striking beauty. The panicles of flowers last for a long time, and being of an unusual character will add much to the attractiveness of the garden. Strong field clumps, each 75 cents.

## Berberis

**Darwinii.** One of the handsomest of all berried plants, and in season covered with pretty orange colored flowers. Foliage rich, dark, glossy, green, plants densely branched and spreading. Of great value in shrubberies, etc. Price, each \$1.00.

**Illicifolia.** A distinct and beautiful species with deeply notched leaves similar to those noted in our common Hollies. A fine companion to the foregoing and quite distinct in character. Price, each \$1.00.

**Thunbergii.** One of the deciduous Barberry which does well in this locality. It is a fine shrub for low plantings. The foliage assumes all the brilliant tints of copper and red during the autumn months, and is exceedingly bright and effective. Strong field grown plants bushy, two to three feet high, each \$1.50.

## Betula

**Alba. (White Birch.)** Although but little known in California, this handsome tree so common in the Eastern states, should be more largely planted. It grows rapidly and soon forms attractive specimens. Price, each 50 cents.

## Buxus

**Sempervirens.** The value of boxwood for small dwarf hedges is well known; it lasts for years, may be trimmed into any desired shape and always retains its bright green appearance. We have a fine stock of plants in three inch pots. Price, each 15 cents; per dozen \$1.50; per hundred \$10.00.

In addition to the small sized plants noted above we have a splendid stock of large sized plants, including large globe-shaped plants, standards similar in form to bay trees, pyramids, etc. These are especially adapted to porch decorations or for planting out in formal gardens. As the sizes vary considerably, prices will be quoted on application.

## Camellias

We have in stock at the present time a fine lot of these elegant hard-wooded, flowering shrubs. They do remarkably well in California if afforded the proper conditions for growing.

The best situation is on the north side of a building or under the protection of a heavily vined pergola, in fact any position where they escape the effects of the hot summer sun.

The preparation of the soil is also of great importance; it is imperative that it be well drained, as sourness at the roots invariably causes them to die. The addition of plenty of leaf mould, or peat dug into the beds, will prove of inestimable value in the production of fine, dark foliage and large flowers. Use no manures.

The varieties we offer are all grafted stock of the best European sorts and are superior in every way to those of Japanese origin.

Price, each \$1.50; per dozen \$15.00.

**Alba Plena.** Elegant pure white.

**Beaute Des Nantes.** A dark rose colored variety, with red stripes.

**Countess Lawine Maggi.** A deep pink with red markings.

**Elegans Chandlerii.** Rose.

**Mad. Lebois.** A bright red variety, with white flakes.

**Princesse Clothilde.** A very pretty rosy pink variety with red stripes.

## Cassia

**Floribunda.** Sometimes referred to as the "Coffee Tree." A continuous blooming variety with handsome foliage, and endless quantities of bright golden yellow blooms borne in clusters; useful for sidewalk planting or as a garden specimen. Five inch pot plants, each 35 cents. In boxes grown to standard form, each 75 cents.

## Caryopteris Mastacanthus

**Blue Spirea.** A fine hardy plant from China of dwarf shrubby character, covered during spring with masses of blue flowers. The blooms are minute, but closely set, and are arranged around the full length of the shoots. Price strong plants from five inch pots, each 35 cents.

## Aralia

**Papyrifera.** The Chinese rice paper plant. Foliage similar in shape to the Castor Bean; silvery white beneath, light green on the surface. A fine thing for the center of canna beds, etc. Each 25 cents; large, 50 cents.

**Sieboldii.** (Variety Moseri.) A handsome type, with dainty foliage. The leaves are of such a glossy, dark green appearance that they seem to be varnished. This variety prefers partial shade, and makes a fine plant for ferneries, etc. It is used in its small state for table and other decorations. Price, strong young plants from three-inch pots, each 25 cents; per dozen \$2.50.

## Casurina

**Equisetifolia.** The beefwood tree of Australia and a common feature of our Southern California horticultural landscape. This tree is of great value for planting in parkings as a sidewalk tree. Rapid in growth and stately in appearance. Strong field plants balled, six to seven feet high, each \$1.00.

## Catalpa

**Bignonioides.** A good, rapid-growing deciduous tree, with broad heavy foliage, and large panicles of white flowers freely produced during the summer months. This species quickly forms large specimens of a highly ornamental character. Price six foot trees not branched, each 50 cents.

## Ceanothus

**Azureus.** A very graceful flowering shrub, covered in early spring with delicate pale blue flowers. This variety is not unlike in color of bloom the native wild species indigenous to California, and it flowers for a much longer period. A valuable shrub for borders or clump planting. Extra strong balled plants, each 75 cents.

## Cercis

**Silicastrum Alba.** A pure white form of the common Judas tree. It attains a height of from twenty to thirty feet and is of striking appearance when in bloom. Large specimens, each \$1.00.

**Carneum.** Similar to the foregoing species but with handsome pink flowers. Price, each \$1.00.

## Coprosma

**Baueriana.** Among the various dwarf shrubs exotic to this section there are but few of more intrinsic value than this distinct and handsome Australian species. The plant is of more or less prostrate habit which gives it especial value as a cover plant. Its leaves are a deep lustrous green, appearing as though varnished, and when planted in groups or as individual specimens offers a foliage color effect unlike other garden plants. One of the handsomest of our dwarf shrubs. Price strong five-inch pot plants, each 35 cents; heavy field plants, each 75 cents.

## Cotoneaster

**Buxifolia.** Two handsome dwarf shrubs of a very ornamental character, suitable for the foreground of tall shrubberies or as cover plants for steep slopes, etc. Price of either variety, each 75 cents.

## Crataegus

The various *Crataegus* are of great value for use as cover plants or for mixing in with other shrubs to obtain dense effects in borders, etc.

During winter the plants are densely covered with small highly colored berries which gives them a very attractive appearance.



ARALIA SIEBOLDII VAR. MOSERI

**Pyracantha.** Flowers white followed with dense masses of beautiful scarlet berries. An ornamental shrub of splendid decorative value. Price young plants, each 35 cents. Strong field grown specimens, each \$1.00.

**Crus Galli.** With small white flowers and attractive red anthers, scarlet berried. The stems are heavily spined and well covered with pretty dark green foliage. Price, each \$1.00.

## Cytisus

**Albus.** The white Portugal broom; one of the prettiest of spring flowering shrubs, the plants being covered with masses of small, pure white, pea-shaped flowers. A fine thing for dwarf shrubberies, or as an individual solitary specimen. Fine plants in four inch pots, each 35 cents.

## Erica

**Mediterranea.** One of the prettiest of all heathers. It is covered from top to bottom in early spring with deep rose-colored blooms. Strong plants in five inch pots, each 75 cents.

## Erythrina

**Crista Galli.** A very effective summer flowering plant, which produces large numbers of bright scarlet flowers; these are pea-shaped, of large size and of a very brilliant effect. A fine thing as a garden specimen. Price, each 50 cents.

## Escallonia

As flowering shrubs of medium height for the production of a more or less continuous display of color, *Escallonias* are of great value.



They all possess bright, glossy green foliage, are strictly evergreen in character, and are attractive in the shrubby border in or out of bloom.

The three we offer are amongst the best of the various species and well adapted to California gardens.

**Alba. (White flowered.)** A beautiful pure white variety.

**Rubra. (Red.)** Similar to the preceding but with red flowers.

**Pink.** With deep rich rose colored blossoms.

Price of the foregoing, strong balled plants, each 75 cents.

## Euonymus

**Golden.** A fine type of plant for hedges, individual specimens, etc. The foliage is bright and clean; color, dark green, with golden variegations. Price, fine plants in five inch pots, each 35 cents.

**Japonica Aurea.** One of the best of the gold and green variegated forms. Unlike many variegated plants this variety holds its character without reverting to the original green type. It is hardy in character and is of splendid value as a single specimen or for use in dwarf hedges, etc. Price, strong young field plants, balled, each 50 cents.

Large sized plants, price on application.

## Eucalyptus

**Ficifolia.** The scarlet flowered eucalyptus, producing great heads of bright blooms in late spring and summer. The best of all species for garden ornamentation. Fine plants from five inch pots, each 75 cents. Prices on other species of eucalyptus on application.

**Platyphylla.** A new and very rare eucalypt, which we believe is destined to be one of the finest of our exotic shade trees. References made to it by competent botanists are to the effect that it is one of the finest shade trees in existence. The foliage of this variety attains an enormous size—it is not unusual to see leaves ten inches long by eight broad; they are thick and leathery in texture and of a handsome bright green color. We have only a small stock of these plants, and we believe the only stock in the United States. They are fine plants, in five inch pots. Price, each 50 cents; per dozen \$5.00.

## Eupatorium

**Ageratoides.** A giant winter flowering eupatorium of shrubby habit, with magnificent heads of pure white flowers. Like most eupatoriums the flowers are very feathery in appearance, and are useful for mixing with bouquets, etc. Price, each 50 cents.

## Ficus (Rubber Tree)

**Elastica.** The well known sort, with immense, glossy, dark green leaves. We have a fine stock of the larger sizes. One to eight feet high. \$1.00 per foot.

**Macrophylla.** This species is quite distinct from *Elastica*. The leaves are dark, glossy green, and very broad, with dark stems and midrib. This fine sort makes a specimen tree in a very short time. Price, each \$1.00.

## Genista

**Andreana.** This handsome shrub is undoubtedly the prettiest of the broom family. The plant is made up of slender branching stems leafless or nearly so, which in early spring are smothered with flowers. These latter are pea-shaped, with rich, velvety crimson wings, while the balance of the flower is bright golden yellow. Strong plants, which will bloom this spring, each \$1.00.

**Canariensis.** An excellent spring flowering shrub, with fine foliage, and in season covered with myriads of small golden yellow pea-shaped blooms. Largely grown as an Easter plant. Strong plants from three inch pots, each 25 cents; per dozen \$2.50.

**Hispanica.** Commonly known as Scotch Bloom. It is covered during the early spring with golden yellow pea-shaped flowers, which are much larger than those of the preceding variety. Extra strong plants, 75 cents each.

## Ginkgo

**Biloba.** Commonly known as the Maidenhair tree; a beautiful hardy species from North China, with deeply notched fan-shaped leaves. The fully grown specimens are very ornamental in character, and offer good shade during the summer. Price, strong two-year trees, each 50 cents.

## Grevillea

**Thelemanniana.** A lovely dwarf Australian shrub, with fine, needle-like foliage and distinct bright red flowers. It resists drought in a great degree and is especially useful in sandy soils. A plant in bloom is a beautiful thing. Strong plants from pots, each 35 cents; per dozen \$3.50.

## Guava

**Strawberry.** Although a plant grown generally for its fruit, this Guava makes a fine hedge plant. It is perennially green, with bright glossy foliage. For divisional lines in large gardens, it should be more freely used. Fine plants in five-inch pots, Each 25 cents.

## Habrothamnus

**Coccinea.** A splendid shrub of weeping habit, with long, slender stems and large clusters of rosy crimson, tubular-shaped flowers. This species is beautiful in mixed shrubberies, or as a solitary specimen in beds, lawn, etc. Price, each 35 cents; large plants in boxes, \$1.00 each.

## Hibiscus

Single Yellow with Crimson Eye.

Single Buff with Crimson Eye.

We are able to offer for the first time plants of the above beautiful and scarce hibiscus. The flowers are very large, freely produced, and when in bloom attract attention at once. Strong plants of either variety, each 50 cents; extra large field grown, each \$1.00.

**Double Crimson.** The value of the hibiscus as a garden plant is well understood. They are excellent when used as solitary specimens or in grouped effects. We would also suggest using them for hedges, and they are particularly effective when so used. The crimson is very satisfactory used in this manner. Strong plants from the field, three to four feet high, \$1.50 each; from four inch pots, strong stuff, each 25 cents.

**Peach Blow.** A comparatively new sort and one of remarkable beauty. It has the same elegant form as the best double types, but is entirely distinct in color, being a delicate soft rose with shadings of salmon. Very large and very free flowering. Prices same as Double Crimson.

## Hydrangea

With the advance of modern ornamental horticulture and the vast improvement in our common garden flowers attributable thereto, we cannot pass without mention the wonderful results obtained by skillful European hybridists in this elegant hardy shrub.

It is but few years removed when the varieties were few in number, consisting largely of native Japanese species, while today with the better understood methods of plant breeding, we have new types, in a color series of surpassing beauty. We might mention in this regard that we have over thirty of these new varieties under test, and some of them have proved remarkably fine. We can only offer a few this season which we can recommend, but others will follow later.

## Novelties of 1912

**AVALANCHE.** A magnificent pure white which will supersede such varieties as Thos. Hogg, etc. Corymbs large and perfectly formed. A gem in every sense. Price, each 75 cents.

**BOQUET ROSE.** A delicate soft rosy pink, turning lighter as the flowers mature. Price, each 75 cents.

**DENTELLE.** A most unusual form in which the flowers in the truss show a fimbriated appearance. White, passing to soft rose. Price, each 75 cents.

**LA LORRAINE.** Individual blooms in the truss, very large. Color, delicate rose, deepening with age to bright pink. Price, each 75 cents.

**ORNEMENT.** A splendid shade of mauve pink. Distinct and beautiful. Price, each 75 cents.

**Arborescens Grandiflora.** A new deciduous, pure snow white variety. The enormous trusses of bloom are much the same shape as hortensis, with foliage somewhat like the paniculata types. We regard it as one of the finest novelties of recent years and are certain that it will please all who try it. Strong plants, \$1.00 each; four-inch pots, each 35 cents.

**Otaska Monstrosa.** The immense blooms of this variety and the wonderful freedom of their production gives it a premier position among its kind. The heads are far larger than the old variety hortensis, and with us it blooms more or less continuously. It is nothing unusual to have heads twelve to fifteen inches in diameter; an additional good quality is the color, which is a most pleasing shade of pink. Our stock of these plants is large and can be supplied in all sizes. For shady locations they are invaluable, and when in bloom produce telling effects. They thrive in shady corners where few plants grow, and require very little attention. It is important, however, that plenty of water be supplied during the growing and blooming period. Price young plants, each 25 cents; strong balled stuff, each 50 cents; extra large balled plants, \$1.00 each.

**NOTE:** We often have calls for blue hydrangeas, and would say that this color is entirely artificial. For those who desire the blue shade, add oxide of iron or iron filings to the soil when planting.

## Hypericum

**Moserianum.** This handsome plant is generally classed under herbaceous plants, but in California it attains large size and is practically evergreen. It bears large numbers of bright golden yellow blossoms, two to three inches across. They are borne along the entire length of the gracefully arched stems. A fine thing for planting between mixed shrubbery or in herbaceous borders. Strong balled plants, each \$1.00; per dozen \$10.00. Strong young plants from three inch pots, each 25 cents; per dozen \$2.50.

## Jacaranda

**Mimosaefolia.** With its elegant fern-like foliage and beautiful masses of dark blue flowers we have in the Jacaranda one of



HYDRANGAEA ARBORESCENS GRANDIFLORA

the most beautiful of all ornamental flowering trees. It makes handsome specimens in short time. Price, fine trees three to four feet high, each 50 cents.

## Laurestinus

An excellent hedge plant, covered during spring with masses of white flowers. It can be trimmed into any desired shape. The foliage always retains a clean, bright look. Strong plants, each 25 cents; small, for lining out, each 15 cents; per hundred \$10.00.

## Lagenaria

**Pattersoni.** A splendid flowering tree, covered in season with single Abutilon-like blooms of a delicate pink shade. Foliage, silvery on the under side, glossy green on the reverse. Useful in large plantings. Fine plants in pots, three to four feet high, each 50 cents.

## Lemon Verbena

Well known for the delicious perfume emitted from the crushed leaves. No garden should be without a plant. Price strong plants, each 35 cents; smaller, 20 cents.

## Leptospermum

**Laevigatum.** A lovely Australian shrub with long weeping branches, densely foliated with small whitish green leaves. During the spring the plants are literally covered with minute white flowers. Attractive both in and out of bloom; one of the best of the numerous Australian shrubs. Price strong balled plants from the field, each 50 cents.

## Linum

**Flavum.** A species of perennial flax with handsome golden yellow blossoms, some two inches across. It grows to shrub like proportions in this climate, and flowers profusely throughout the year. A fine plant for dwarf borders, etc. Price, each 15 cents; per dozen \$1.50.

## Liriodendron

**Tulipifera.** (Tulip Tree.) Although common in Eastern gardens this handsome species is scarcely known in California. It grows luxuriantly in this climate but requires a moist position for best results. As a tree for lawn planting it is very effective, its large sycamore-like leaves and richly colored tulip-shaped blossoms create an imposing effect. Price, strong trees, each 75 cents.

## Magnolia

**Grandiflora.** We have a fine lot of grafted plants of this magnificent tree. Grafted stock produces blooms at a much earlier date than seedling stock. About three feet high. Each \$1.00.

## Mahonia

**Aquifolia.** A splendid dwarf shrub with long prickly glossy green foliage, and clusters of small yellow blossoms in early spring. Aside from its value planted out it makes a very handsome tub or pot plant. Strong balled plants from the field, Price, each 75 cents.

## Moschosma

**Riparium.** A new plant and one of the daintiest winter blooming shrubs, either for pot culture or for the open border. It much resembles some of the Spiraeas, and possesses a beautiful light lavender and white color arrangement. The foliage and flowers have a strong odor similar to musk. Young plants, each 25 cents.

## Morus

**Alba.** (Common Mulberry.) A deciduous shade tree of clean and rapid growth, useful either as lawn specimen or back yard planting; leaves very large and rich glossy green in color. Requires plenty of water. Price, six to eight feet high, fine trees, each \$1.00.

**Nigra.** (Black Mulberry.) Similar to the preceding but with black fruit; these are quite edible. Price, six to eight feet high, each \$1.00.

## Myrtus

**Communis.** (Common English Myrtle.) One of the best evergreen plants for borders and hedges and of equal value when allowed to grow into tree-like specimens. Covered during the spring with masses of pure white fragrant flowers. Price, young plants for lining out, two inch pots, each 10 cents; per one hundred \$7.50; field plants, strong, each 50 cents.

**Communis Microphylla.** A handsome small-leaved form of the preceding. Price, two inch pots, each 10 cents; per hundred \$7.50; field plants, each 50 cents.

## Nandina

**Domestica.** A highly ornamental dwarf shrub, native of Japan and suitable for many purposes. It makes a beautiful lawn

specimen or may be grown and treated as a pot plant. During the winter the leaves take on a rich coppery-red color. Price, strong balled plants, each \$1.00.

## Oleanders

These make beautiful specimens in a short time and are practically ever-blooming. For solitary specimens on lawns they show to great advantage. Assorted colors, each 50 cents; per dozen \$5.00.

## Philadelphus

**Avalanche.** We have three of the best varieties of **Boule d'Argent.** Philadelphus or Syringas as they are commonly known. The blossoms are white but vary in shape in the different sorts. They are excellent dwarf, hardy shrubs which flower abundantly early in the spring. Price, strong field plants, each 50 cents.

## Pittosporum

With their bright, glossy green foliage—so bright that it appears varnished—and deliciously fragrant small blossoms, the Pittosporum should find a place in every garden where fine trees are used. We offer four of the best.

**Undulatum.** A beautiful tree in every way. Price, young plants two feet high, each 50 cents.

**Rhombofolium.** With much smaller foliage than the foregoing. Very shapely specimens from the field, balled, four to five feet high and well branched, each \$1.50.

**Crassifolium.** An erect growing species with thick leathery foliage. This variety only attains a medium height, being quite shrubby in character. Very handsome as a specimen plant. Price, each 50 cents.

**Nigra.** A distinct and very desirable variety with glossy light green foliage and black stems. It may be grown as a standard in which form it makes a good sidewalk tree for use in parkings, etc. Price, each 50 cents.

## Platanus

**Occidentalis and Orientalis.** The Eastern and Western hardy Sycamores are two of the best and most satisfactory shade trees grown. In California they grow with great rapidity soon making large trees; foliage very large and in many respects not unlike our native species. For sidewalk planting they are of great value, they thrive in cities where the smoke and dust is fatal to other trees. Price, strong straight stemmed plants, six to seven feet high, each 75 cents.

## Poinsettia

**Single Scarlet.** Immense bracts of bright scarlet flowers, well known and universally admired. Young plants, each 15 cents; per dozen \$1.50. Extra large specimens, each 50 cents.

**Double.** This is a very scarce variety, with perfectly double bracts of an intense red. It differs from the preceding variety also in the respect that it is somewhat later in bloom. The leaflets comprising the bract are rather narrow, but very numerous. A plant in bloom attracts attention at once. Strong young plants, each 25 cents; per dozen \$2.50.

## Privet

**Ligustrum Japonica.** An excellent hedge plant, with small oval-shaped leaves and covered during the spring with numerous spikes of fragrant white flowers. Price young plants for lining, each 10 cents; per dozen 75 cents; per hundred \$6.00.

## Prunus

**Illicifolia.** (Holly Leaved.) The evergreen wild plum, native of our mountain sections. This highly ornamental evergreen is quite equal to holly in appearance and is one of the most





MATILIJA POPPY (ROMNEYA COULTERI)

satisfactory evergreen shrubs for California gardens. It may be used as individual specimens or trained into hedge form. Strong plants from three inch pots, each 25 cents.

**Illicifolia var. Integrifolia.** The Catalina type of the foregoing with much larger, glossy green foliage. Price, three inch pot plants, each 25 cents.

**Pissardii.** One of the most ornamental of all foliage plants, the leaves are deep copper-bronze in color, fully as rich a shade as that noted in a purple beech with the advantage of being a more rapid grower. Price, fine trees five to six feet, each \$1.00.

**Sinensis. Double Pink.** These three varieties are double flowered forms of flowering peaches, and produce great masses of flowers in early spring; they are exceedingly ornamental either grown in pots or planted out. Fine specimen plants five to six feet high of any of the above, each \$1.00.

### Pomegranate

The following three garden forms of the Common Pomegranate produce large double flowers and are highly ornamental when used as flowering shrubs.

**Alba Plena.** With pure white flowers, very double.

**Rubra.** Bright scarlet of intense shade.

**Andre Leroy.** Immense orange-colored flowers. Price, strong three year field plants, each 75 cents.

### Romneya

**Coulteri. (Matilija Poppy.)** This magnificent plant is, without question, the finest of our native shrubs. Its immense snowy white frilled blossoms and highly contrasting bunch of golden yellow stamens in the central portion of the bloom are beautiful to a degree. It is not unusual to have flowers measure six to seven inches in diameter. As cut flowers they have few equals; as garden specimens, they attract attention at once.

With the return of each spring there is an added vigor to the plant and a consequent increase in the number of blossoms. To obtain the finest quality of flowers it is advisable to prune the plant down to within a few inches of the ground during the month of November. The new growth which occurs with the advent of the winter rains comes from the eyes close to the ground or even those beneath the surface, and on the tips of these are produced the finest flowers. Price strong young plants, each 75 cents.

### Quercus

**Agrifolia. (Live Oak.)** A native of California, and which may be well regarded as one of the noblest and handsomest of all native trees. It is evergreen in nature, with a particularly rich dark green effect throughout the year. The idea prevails that it takes a life time to get results in the growth of this tree; as a matter of fact, it is exceedingly rapid in growth

if water is given freely. Fine plants in five inch pots, each 50 cents. Extra size in boxes, each \$1.00.

**Suber.** The famous Cork Oak of Southern Europe, from the bark of which the cork of commerce is obtained, rapid in growth, evergreen in character, and one of the handsomest of the family. Strong field grown plants, six to seven feet high, each \$2.50.

### Sterculia

**Diversifolia.** One of the best of all street trees. Pyramidal in growth, with very thick tapering trunk. The foliage is quite constant, with a clean, bright appearance at all times. Price, strong straight specimens, six to seven feet high, each 75 cents.

**Note.** The above prices are for dormant plants.

### Schinus

**Molle.** The well known California Pepper tree. One of the best trees for street planting where the parkings are wide. Young plants in pots, two to three feet, each 35 cents; large plants in assorted sizes, prices on application.

### Snowball

We have a fine stock of this elegant deciduous shrub and can offer large, well branched specimens. Each \$1.00.

### Swainsonia

Among the dwarf shrubs Swainsonias occupy a prominent position. They bloom through a long season and few plants are more graceful in character of foliage and bloom.

**Alba.** With spikes of dainty pure white pea shaped flowers.

**Rosea.** Similar to the above, with rosy purple flowers. Price, each 35 cents; per dozen \$3.50.

### Tamarix

**Plumosus.** A beautiful tree for lawn planting, or when used in mixed shrubberies. It is deciduous in nature, losing its foliage in winter. During summer it presents a striking plummy appearance, especially so when covered with its innumerable pink flowers. Strong field grown plants, each \$1.50.

### Veronica

For planting in groups on the lawn or for mixing in with dwarf shrubs in borders the veronicas are especially adapted. The variety *Imperialis* makes a striking specimen with its dark foliage and highly colored spikes of carmine crimson flowers.

**Alba.** Long, narrow foliage, compact growth, spikes of pure white flowers

**Andersoni.** Glossy, olive-like leaves. Pale blue.

**Imperialis.** Broad foliage, growth exceedingly vigorous, color carmine crimson. Very fine.

**Lobeloides.** Large spikes of pale blue flowers. One of the best.

**Microphylla.** A dainty small foliaged variety, covered with innumerable spikes of pure white flowers.

**Variegata.** Foliage dark green, beautifully margined with white. Flowers rich blue.

Price of any of the above from 2½ inch pots, each 20 cents; per dozen \$2.00.

### Wigelias

These well known flowering shrubs are splendid subjects for the garden.

They produce masses of trumpet shaped flowers during the late spring in a diversified range of colors.

**Hortensis Rivea.** White, occasionally tinted pink.

**Eva Rathke.** A continuous bloomer, deep, rich carmine.

**Candida.** Pure white, very large in size. Price, strong two year plants, each 50 cents.

# Vines

## Flowering, Ornamental Foliage, Etc.

### Ampelopsis

**Veitchi.** (Boston Ivy.) One of the most ornamental of climbing foliage plants. It is extremely hardy, withstanding many degrees of freezing temperature without injury, and doing equally well in our warm, temperate climate. In autumn the leaves assume a reddish copper tint, and are very effective. Price, young plants in two-inch pots, each 15 cents; per dozen \$1.50; four-inch pots, each 25 cents; per dozen \$2.50.

**Quinquaefolia.** (Virginia Creeper.) Foliage much larger than the preceding, with a more vigorous habit of growth. It assumes the same high tints in the autumn. Price, each 25 cents; per dozen \$2.50.

**Variegata.** A prettily variegated form of *Ampelopsis*, with foliage much the same size as the "Boston Ivy." The leaves are marked with white on a green ground. Price, each 25 cents; per dozen \$2.50.

**CULTURAL NOTE:** The three species above noted support their branches on walls, etc., by means of aerial roots. They require no framework to grow on. They should be planted close to the wall or building, and preferably in a shady position, as plenty of moisture is a requisite.

### Anemopaegma

**Purpureum.** A beautiful tropical vine, closely allied to *Bignonias*. The flowers are reddish purple in color, and about

an inch across. A fine thing for trellises, pergolas, etc. When in full bloom the racemes hang in great numbers with several flowers in each cluster. This vine is tender in nature and is consequently of no value as an outside climber in any section subject to heavy frosts. In most parts of Southern California it grows readily. Price, each 50 cents.

### Bignonias

These are for the most part natives of tropical Mexico, and consequently require a warm, sunny position in the garden. They will not thrive in localities where the temperature falls more than six degrees below the freezing point.

In our favored climate they grow with great vigor, and form one of the showiest classes of vines we have.

#### A NEW SUPERB ONE

**SPECIOSA.** We first obtained a few seeds of this lovely variety from Mr. J. C. Harvey, State of Vera Cruz, Mexico, four years ago. We succeeded in raising a few plants only from the package. It flowered for the first time last fall, disclosing a novelty which for beauty of coloring and distinctiveness ranks it at once as one of the choicest of species.

The bloom is tubular in shape, with the open face of the flower an inch or over in diameter. The color is a most delicate shade of mauve with a lighter colored throat. The flowers are borne in dense clusters at the axils of the leaves. These

clusters are so numerous that a plant in full bloom attracts attention at once. In general habit of bloom and foliage the plant much resembles *Bignonia Violacea*, but with a much more delicate color.

We have only a small stock for distribution this season. Price, each \$1.00.

**Chererei.** A very scarce variety from Mexico, with long, trumpet-shaped flowers, fully three inches in diameter; in color a rich shade of blood red. It is strictly an evergreen, and in addition is one of the rankest growers in the family. It will not stand much frost and should be planted in a sunny, protected position. Young plants, each 50 cents.

**Venustus.** One of the handsomest of all *Bignonias*. It is a mid-winter bloomer, and displays at that season innumerable clusters of long, tubular flowers; color rich orange. Price, each 35 cents; strong young plants.

**Violacea.** With bright, glossy green leaves, characteristic of so many tropical plants, and deep violet purple flowers two inches across. A splendid plant for protected positions on pergolas, walls, etc. The plant is literally smothered with a mass of flowers during its blooming season. Price, each 35 cents; per dozen \$3.50.

**Tweediana.** A small leaved species of clinging habit and consequently very useful for covering walls, stone pillars, etc. It is covered during spring with quantities of canary-yellow blossoms. Each 35 cents.

**Mackenni.** A rampant growing species, with large clusters of deep pink flowers. Like most of the family it is a winter bloomer. It is valuable for trellises, pergolas, etc., growing with great rapidity it soon covers a large area and is very decorative when in bloom. Price, each 25 cents; extra strong, each 50 cents.

## Bamboo

**Climbing.** (New.) A rare climbing species from Central America with foliage much like some of the dwarf species. It is strictly of climbing habit and requires supports for its long shoots, some of which attain a length of twenty feet.

As a plant for pergolas it is of unique effect, and graceful to a degree. Price, each 75 cents.

## Bougainvillea

We have a large stock of these useful climbing plants, now so much used in the warmer parts of the United States. Like *Bignonias*, they are at their best during midwinter. They require a hot, sunny position. Once established they grow with a minimum amount of water.

### A Magnificent Novelty for 1913

#### "ROSA CATALINA"

This superb new *Bougainvillea* is unquestionably one of the most sensational and at the same time thoroughly meritorious novelties introduced in climbing plants for many a day.

It is the counterpart of the best large flowered forms in so far as the growth and shape of the bracts are concerned, but offers a color entirely new in this class of plants.

The color is a delightful shade of pure rose pink, without even a suggestion of magenta, and is not unlike the shade noted in *Begonia* "Gloire de Lorraine."

There are many who object to the magenta and purple shades in the ordinary kinds, for the reason they clash with nearly all other color schemes in the garden; with the introduction of "Rosa Catalina" this trouble is removed and there is added to our list of pink flowered climbing plants a variety of great value and unquestionable merit.

Price, strong plants from three-inch pots, each \$1.50.

**Glabra Sanderiana.** The most prolific blooming of any of the species; it commences to bloom when only a few inches high, and it may be said that it is never out of flower. The bracts are a light carmine purple color and rather smaller in size than the three following varieties. Young plants from two and one-half inch pots, each 25 cents; four inch, each 35 cents; six inch, each 75 cents.

**Cypheri.** Quite distinct in color from the preceding variety, with much larger bracts. Color, rosy purple. A fine acquisition. Price, each 35 cents; per dozen \$3.50.

**Spectabilis.** The best of all deep, purple *Bougainvilleas*. The bracts are produced in immense heads, and are of a deep, glowing purple in color. It is without question one of the finest in the family. For hedges, pergolas, etc., it is unexcelled. Price, strong young plants, each 25 cents.

**LATERITA.** This remarkable variety is almost identical with *Spectabilis* in its growth; it differs only in the lighter color of its foliage and in that the flowers, instead of being purple, as most of the family, are a handsome terracotta shade. This variety is exceedingly difficult to propagate, and as a consequence the price is always high. We have only a limited stock to offer. Fine plants from five-inch pots, each \$2.50; extra large stock, each \$5.00.

## Clematis

**Paniculata.** (Virgins Bower.) One of the handsomest and most easily grown of all hardy climbing, flowering plants. The plants are densely foliaged, and during May and June completely covered with a profusion of dainty star-like flowers.

For covering fences, pergolas, or for use as a cover plant on shady banks this *Clematis* is of great value.

Price, each 35 cents.

## Cobea Scandens

A plant of very rapid growth, often attaining a height of twenty feet in one season. The flowers are bell-shaped, deep purple in color and freely produced. Each 15 cents; per dozen \$1.50.

## Clanthus

**Alba.** A very rare tropical vine with numerous, large pure white flowers; these are pea-shaped, and are freely borne in season over the entire plant. It is of value only in frostless sections. This is a good thing for Southern California gardens. Price, each 75 cents.

## Dioclea

**Glycinoides.** A superb climber from the Rio de la Plata region of South America. The flowers are pea-shaped, of good size, and borne in racemes. Color, an intensely vivid scarlet. This is a very rare plant and should find a place in every California garden. Price, each 75 cents.

## Dolichos

**Lignosus.** (Australian Pea Vine.) Commonly known as the Australian Pea Vine. A rampant grower and of special value for hiding unsightly fences. Flowers pea-shaped; rose and purple in color. Small plants. Each 15 cents; per dozen \$1.50.

**Dolichos Lignosus.** Pure white. New. Each 15 cents; per dozen \$1.50.

## Duranta

**Variegata.** As a general rule there are few plants which show variegation in foliage that will stand our summer sun and dry atmospheric conditions without either burning or bleaching out. However, the above is an exception to the rule, and we have in it one of the prettiest and most distinctly colored plants. The leaves are bright green, edged and splashed with golden yellow. The growth is prostrate in habit, but if given support it is half climber in nature. The flowers are small, pea-shaped, delicate blue, and occur in small racemes at the tips of the shoots. This plant is an excellent subject for pergolas, or it may be treated as a shrub. Price, strong young plants, each 35 cents.



## Ficus

**Repens.** A very ornamental climbing plant, which fastens itself to stone or brick buildings by means of aerial roots and makes a dense mat of small dark green leaves. It retains its foliage at all seasons. Small plants, each 15 cents; per dozen \$1.50. Strong plants, each 25 cents; per dozen \$2.50.

## Honeysuckle

These old fashioned climbing plants are favorites with everyone. The flowers are deliciously perfumed; a plant in full bloom scents the whole surrounding area.

The following are four of the best:

**Common Sweet Scented.** Young plants, each 15 cents; from four-inch pots, each 25 cents.

**Gigantea.** With very large foliage and large clusters of creamy yellow flowers. Each 25 cents.

**Scarlet Flowered.** Blooms deep scarlet, with orange and yellow shadings. Foliage deep green, silvery on the under side. Price, each 25 cents.

**Variegated.** Foliage beautifully splashed with golden yellow. A very ornamental vine. Strong plants from four-inch pots, each 25 cents.

## Hoya (Wax Vine)

**Carnosa.** A handsome climbing plant which does well in shady places, or it may be used as a pot plant indoors. The umbels of bloom are waxy pink in color, and freely produced. Leaves thick and fleshy in texture. Price, each 35 cents.

## Ivy (Hedera)

The value of ivy as a climbing foliage plant is well known. Like the various Ampelopsis, it furnishes its own support; by means of aerial roots it clings tenaciously to walls, trees, etc., and although not generally known, it is one of the best of all cover plants under the shade of large trees, etc., covering the ground with a mat of foliage and stems, with the advantage of being perennially green.

**Helix Chrysocarpa.** A beautiful cut leaved Ivy; the foliage is three lobed and quite distinct in form from ordinary English Ivy. It clings to wood or stone. Price, each 20 cents; per dozen \$2.00.

**English.** The best for all purposes, with large, dark green foliage. Price, young plants, each 15 cents; per dozen \$1.50; extra strong, from four-inch pots, each 25 cents; per dozen \$2.50.

**Variegata.** Prettily variegated with white on a deep green ground. Price, strong plants, each 25 cents; per dozen \$2.50.

## Jasmine

**Azoricum.** A rare species, with clusters of pure white star-shaped flowers. It is quite distinct from others in form of foliage; the leaves are quite large, two to two and one-half inches across. The flowers are entirely without the scent characteristic of jasmines. Price, each 25 cents.

**Ligustifolium.** A rare and beautiful species, with small starry flowers. These are intensely fragrant and are produced in large numbers during early summer. Foliage dark, glossy green, narrow, long and pointed after the manner of some privets. Price, each 35 cents.

**Maid of Orleans.** Double, creamy white flowers with a most intense fragrance. This variety is shrubby in habit, and cannot be classed as a climbing plant. It is a fine thing for low, shady borders. Price, each 25 cents, strong plants.

**PRIMULINUM.** A magnificent new golden yellow jasmine from China; flowers very large, rich golden yellow in color. We have noticed in several catalogues that attention has been

called to its delicious perfume. We question the truth of this statement, however; with us it is absolutely odorless.

The blossoms are fully two inches in diameter, and in winter and spring the plant is covered with masses of flowers. A rapid grower and quite hardy. Price each 35 cents.

**Yellow.** Semi-climbing, with very fragrant yellow flowers.

**White.** Sweetly scented pure white star-shaped flowers. Climbing. Price of either of the above, each 35 cents.

## Kennedya

We offer under this head a series of three beautiful, climbing plants, natives of Australia, which are of superlative merit for California gardens. The flowers are pea-shaped, very small in size, but are borne in great quantities throughout the winter and early spring. There is a grace and beauty about these vines of a most exceptional character. They do not attain a height much to exceed ten feet.

**Alba.** A beautiful pure white.

**Purpurea.** Rich purplish blue.

**Rosea.** Light lavender rose.

Price of the foregoing, each 35 cents; per dozen \$3.50.

## Lathyrus

**White Pearl.** A new perennial pea of wonderful beauty. It is an improved form of the old *Latifolius Albus*; the flowers and trusses are fully twice the size of the old form, and pure waxy-white in color. A fine thing for cutting purposes, or as a flowering vine. Price, each 50 cents.

## Mandevillea

**Suaveolens.** This lovely climbing plant is a native of South America. It will stand several degrees of frost without injury. The flowers are about two inches in diameter, intensely fragrant, and are borne in great profusion. This vine requires a fully exposed sunny situation. Price, each 35 cents.

## Moon Vines

**Maxima.** A new giant flowered night bloomer, with much larger flowers than any other Moon Vine. Pure white, with flowers of excellent substance. Each 25 cents.

**Learii.** Perennial blue Moon Vine. Flower of large size; color deep purplish blue. Each 20 cents.

## Muhlenbeckia

**Complexa.** Commonly known in California as Wire Vine. A graceful plant with minute round leaves and slender wire like stems; deep reddish brown in color. For covering the posts of pergolas, etc., it is valuable and very effective, the whole plant having a fern-like appearance. Price, each 35 cents.

## Pithecoctinium

**Muricatum.** A little known but very desirable climbing plant, closely allied to the bignonias, and requiring much the same treatment. It is a strong, rampant grower, with the shoots densely covered with rich, creamy yellow blossoms during late spring. The flowers average an inch in diameter. Price, each 35 cents.

## Plumbago

**Capensis Blue.** Semi-climbing in habit, so that it may be used as a vine or pruned into bush shape. It is covered during summer and fall with lovely pale blue flowers. Small plants, each 20 cents; large, 50 and 75 cents each.

## Snail Vine

**Phaseolus Caracalla.** An elegant climber of rapid growth, well adapted for covering trellises, etc. Flowers creamy white, shading to deep lavender and gradually changing to yellow as the flowers mature. Each 15 cents; per dozen \$1.50.

## Passiflora

**PRINCEPS.** One of the rarest and most beautiful of all climbing plants. The various *Passifloras*, or Passion Vines, as they are more commonly called, offer many distinct varieties, but we believe this to be the finest of all. The flowers are large, and instead of being disposed on the plant as individual specimens they are carried in long, leafless racemes of eight to ten in the cluster. The color is a unique shade of carmine rose, beautiful in the extreme.

This is a very difficult plant to propagate, and offers no seeds, as most other varieties. It requires a warm, sheltered location, and will not stand much frost. Price, each 50 cents.

## Rhynchospermum

**Jasminoides.** (Malayan Jasmine.) One of the most exquisitely scented of all flowering vines. The flowers are small, star-shaped, borne in profusion and deliciously fragrant. Foliage dark green, thick and leathery in substance. Fine large plants in five-inch pots, each 50 cents; three-inch pots, each 25 cents.

## Solanum

For rapid growth few vines exceed the various species of *Solanum*. They require a warm, sunny location, and like most tropical plants, plenty of water. The four following are among the best for this climate:

**Jasminoides.** A free blooming and free growing vine. Blossoms medium in size, but carried in good sized umbels. Color white shaded with purple. Strong plants from five-inch pots, 50 cents; smaller, each 25 cents.

**Seaforthianum.** A very free flowering species with umbels of large rich blue flowers. This and the following are of rapid growth, and are covered almost throughout the year with flowers. Price, each 25 cents.

**Seaforthianum Album.** (See cut.) A new pure white form of the preceding; otherwise identical in character. Price, each 25 cents.

**Wendlandii.** The grandest of all *Solanums*. Foliage enormous, and in the blooming season the entire plant is covered with gigantic trusses of pale blue flowers. It does best when planted in a sunny situation. Each 25 cents.

## Solandra

**Grandiflora.** A very handsome tropical vine, with thick fleshy stems and broad rich green foliage. The flowers resemble those of an Easter Lily. On opening they are white, with age turning to deep saffron yellow. It will stand some degrees of frost, but its culture outside is limited to the warmer portions of the United States, such as California and Florida. Very rare and beautiful. Price, each 75 cents.

## Sollya

**Heterophylla.** The Australian blue bell creeper. A vigorous plant with small foliage and numerous pale blue flowers. It is but little known here, although a valuable climber. It does well in almost any situation, and is deserving of increased culture. Price, each 35 cents.

## Streptosolon

**Jamesonii.** A beautiful plant for any well protected sunny situation. It is only half climber in habit, and may be treated either as a vine or shrub. During the summer the plant is covered with dense masses of orange red flowers which almost



SOLANUM, SEAFORTHIANUM ALBUM

hide the foliage. It makes a splendid hedge plant if kept trimmed, and is equally pretty on a trellis or treated as an individual border specimen.

Price, young plants from two-inch pots, each 15 cents; per dozen \$1.50; large specimens, each 50 cents, 75 and \$1.00, according to size.

## Smilax

Young plants that will make fine strings for cutting from this season, each 10 cents; per dozen \$1.00.

## Stigmaphyllon

**Ciliatum.** Sometimes referred to as the Brazilian orchid vine. A lovely tender creeping plant, with rich golden yellow flowers carried in somewhat pendulous corymbs. They attain an inch and over in diameter and are prettily fringed. It can be grown in Southern California outside; in colder sections in green-houses only. Price, each 50 cents.

## Tacsonia

**Buchani.** A lovely species with large deeply cleft leaves. Flowers, a grand shade of rosy carmine. This elegant "Passion

Vine" is very rare and of a most unusual color. No collection of vines should be without it. For pergolas, etc., it attracts attention at once. Price, each 35 cents.

**Manicata.** A brilliant vermilion scarlet "Passion Vine" of rampant growth. The coloring of the flowers is of intense brilliancy. The blooms are produced in large numbers throughout the entire summer. This vine requires a sunny position and will not stand much frost. Price, each 25 cents.

**Militaris.** Alike the variety Buchani, this species is of superlative merit. The flowers are exceedingly large and of a magnificent shade of rosy crimson. Very rare. We have only a few plants to offer this season. Price, each \$1.00.

## Tecoma

These are closely allied to the bignonias; they resemble each other in form of flowers, disposition of foliage, etc., and require much the same treatment.

**Australis.** Among all the climbing vines in our collection there are few more beautiful than this lovely species. Its principal value lies in its elegant thick foliage and rampant growth. For the sides of buildings, on fences, etc., it is exceedingly useful. The young foliage is prettily bronzed. Flowers small, but produced in great profusion. Color creamy white. Young plants, each 25 cents.

**Capensis.** Flowers bright scarlet, long and tubular. A fine plant for the sunny side of the house. Strong plants, each 50 cents.

**Jasminoides.** Large flowers; pure white shading to deep crimson in the throat. Foliage bright and glossy. One of the prettiest of vines. Young plants, each 25 cents.

**Jasminoides Alba.** Exactly the same as the preceding in growth and foliage. It differs in the point that the long tubular blossoms are pure white in both the face of the flower and the throat. Very scarce. Each 50 cents.

**Regina Saba.** A great improvement on Tecoma MacKennai, with much larger blossoms. They are a lovely shade of deep rosy pink, with stripings of crimson in the throat. Quite as vigorous as the MacKennai in growth. Price, each 50 cents.

## Thunbergia

**Harrissi.** A scarce climbing plant, with handsome, glossy green foliage. Flowers tubular, with a broad open face, two to two and one-half inches in diameter. Color a most delicate clear lavender blue. Price, each 50 cents.

Although this Thunbergia is a native of the tropics, it has proven quite hardy in Southern California. It requires a half shady position and a good, rich, loamy soil.

# Border Plants

## Achyranthes

**Acuminata.** Deep bronzy purple foliage. Largely used in bedding or as a border plant. It produces a very rich foliage effect and may be trimmed to any desired shape.

**Panache de Bailey.** (New.) A splendid novelty in this class of plants. The foliage is deep green, handsomely reticulated with golden yellow. The leaf stems and stalk are rich crimson. Fine for edgings, window boxes, etc. Each, 10 cents, per dozen \$1.00.

**Emersoni.** Foliage quite narrow and pointed, and of a very much darker shade of color than the preceding variety.

Price of the above varieties, unless otherwise mentioned, strong plants from flats, 50 cents per dozen; \$3.00 per 100. Strong pot grown plants, 75 cents per dozen; \$5.00 per 100.

## Vinca

The various types of Vincas both in the large and small leaved sorts are of inestimable value as garden plants.

They are adapted to a variety of uses, are hardy to a degree, withstanding harsh conditions of soil and climate and grow with little or no attention once the plants are thoroughly established.

For planting on banks or under the dense shade of trees they make a splendid ground cover plant; used in window boxes or hanging baskets their long trailing stems and pretty blue flowers give a light and airy decorative effect.

We offer four of the best varieties.

**Major.** With large dark green foliage.

**Major Variegata.** Similar to the foregoing but yellow and green foliage.

**Minor.** A small-leaved green-foliaged variety.

**Minor Variegata.** A handsome small-leaved variegated form.

Price of any of the above varieties, each 15 cents; per dozen \$1.50.

## Vitis

**CAPENSIS AND RHOMBIFOLIUM.** These two magnificent species of evergreen grapes are unquestionably the most decorative of all foliage vines. The first named species is a rampant grower with large round leaves eight to ten inches across. The stems have a bronzy red tint of highly decorative effect. The second variety is of a dainty, slender growth, heavily foliaged, with the leaf composed of three medium sized lobes. For covering pergolas, walls, porches, etc, they are unsurpassed, being of a light, airy effect, and absolutely clean and evergreen.

Prices of either variety, strong plants from four-inch pots, each 50 cents

## Wistaria

These lovely climbers are universally known and admired. We offer four of the best varieties.

**Chinensis Alba.** Long racemes of pure white flowers.

**Chinensis Blue.** Same as preceding, but with blue flowers.

Strong, heavy plants of the above two varieties, \$1.00 each.

**Multijuga Alba and Coerulea.** These two varieties are the finest of all wistarias. The plants are carefully grafted on the commoner species. The racemes attain great length and are produced in great profusion. Very strong, grafted stock of either sort, \$1.25 each.

## Alternanthera

These are foliage plants of great usefulness for carpet bedding, edges of beds, etc. We offer two of the best varieties. Price, per dozen 50 cents; per 100 \$2.00.

**Aurea Nana.** A handsome dwarf yellow.

**Paronychioides Major.** Bright red and best of this shade.

## Centaurea Candidissima

A useful border plant, with silvery white foliage. As an edging for scarlet geraniums, etc., it has no equal. Strong plants, each 10 cents; per dozen \$1.00.



## Coleus

The following collection of these handsome foliage plants embraces some of the best marked varieties in cultivation. Coleus are fine subjects for bedding, and they do remarkably well here if given a half shady position. A beautiful effect may be obtained by bedding them in conjunction with the Tuberous Begonias.

Price of any of the following, unless otherwise noted, each 15 cents; per dozen \$1.50.

**Brilliancy.** A beautifully marked, mammoth leaved variety. Carmine, crimson, and maroon for a ground color, with yellow and green markings. Extra choice. Each 25 cents.

**Beckwith Gem.** Rich claret crimson, edged with golden yellow.

**Chameleon.** A very distinct new sort; leaves deeply serrated, medium in size, with a golden yellow border passing to a carmine, crimson, and maroon.

**Firebrand.** Deep claret red, intense in color.

**Her Majesty.** Bronze, with yellow border.

**Katisha.** Rich Bronze.

**Lord Alverstone.** The most striking novelty seen in coleus in many years, and one of the most beautiful. The leaves have a ground color of glossy maroon overlaid with carmine purple, and are irregularly spotted and blotched golden yellow. Price, each 25 cents.

**Lyons.** Foliage deeply serrated; bordered with golden yellow with green and crimson shadings on the interior. A fine new one. Each 25 cents.

**M. Daudet.** Yellow, blotched with crimson and maroon.

**President Gerard.** Yellow, blotched green, veined purple.

**Pluto.** Velvety maroon with deeply serrated leaves.

## Giant Daisies

(BELLIS PERENNIS FLORE PLENO MAXIMA)

A giant race of daisies remarkable for their enormous flowers, large foliage and exceedingly vigorous growth. The flowers often measure two inches in diameter, or more than double the size of the well known older sorts. For effective dwarf borders, daisies have but few equals. They delight in rich, moist soil, and well repay any extra attention bestowed upon them. We offer them in two good colors, pure white and deep rose. Per dozen 35 cents; per hundred \$2.00.

## Geranium

**Mad. Salleri.** An excellent edging plant, rarely over six inches high. Foliage green, edged with white. Each 10 cents; per dozen 75 cents; per hundred \$5.00.

## Lobelia

**Emperor William.** A lovely dwarf variety, about four inches in height covered during spring with masses of ultramarine blue flowers. Per dozen 50 cents; per hundred \$2.50.

## Pyrethrum

**Aureum Crispum.** Deeply fringed and cut foliage, with compact habit and bright golden yellow color. A fine thing for edging beds, etc. Per dozen 25 cents; per hundred \$2.00.

## Santolina

**Incana.** A well known and useful border plant, which may be trimmed into neat little hedges. Growth short-jointed. Compact and silvery white in color. Flowers yellow. Per dozen 25 cents; per flat of one hundred plants \$2.00.

# Decorative Plants

Our stock of this class of plants is one of the largest in the West, and one of the most comprehensive. We have nearly five acres of lathhouse space, in addition to a large greenhouse area, which is principally devoted to them.

## Abutilon

**Savitzii.** A handsome variegated Abutilon in which the foliage is marked with pure white on a green background. Very ornamental planted out or when used as a greenhouse plant. Fine plants from four-inch pots, each 20 cents.

## Anthericum

**Variegatum.** A useful and easily grown decorative plant with narrow foliage prettily striped with green and yellow. It is a fine thing for hanging baskets or when grown as a pot plant. Young plants from three-inch pots, each 20 cents; five-inch pots 35 cents.

## Asparagus

**Plumosus Nanus.** Equal to the finest ferns in the point of beauty and easily grown. It does well planted in a shady north border, and produces large quantities of delicate fronds, which are of great value for mixing with bouquets, etc. When grown in pots it is unsurpassed for interior decorations. Three-inch pots, each 15 cents; five-inch pots, 50 cents; seven-inch, 75 cents.

**Scandens Deflexus.** A rare and but little known species, which in our opinion is most beautiful of all. It is of compact trailing habit, much of the same character as Asparagus Sprengeri,

but with dense pale green foliage. Of unsurpassed beauty in hanging baskets, pots, etc. Price, strong plants in three-inch pots, each 35 cents.

**Sprengeri.** One of the best known and hardest varieties of asparagus. It may be grown either in pots or hanging baskets, and will stand either full sun or partial shade. A gross feeder in every sense, requiring plenty of manure in the potting compost and an abundance of water. Six-inch pots, each 50 cents; eight-inch, 75 cents; in hanging baskets of various sizes, prices on application.

**Tenuissimus.** Similar in general appearance to Asparagus Plumosus, with the same fine foliage covering the stems, but without the large, flat leaf form characteristic of that variety. Price, each 25 cents.

## Aspidistra

**Lurida.** For hardiness, beauty and general utility as a decorative specimen the Aspidistra may well be regarded as one of the best of all. It will thrive for months in a room where little light reaches it. It does equally well as a shady porch plant, and may be used with excellent effect planted in a cool, shady border with ferns and other plants of kindred character. A plant of very slow growth. Our stock is very strong. Six-inch pots, each \$1.50; ten-inch pans, \$3.00; thirteen-inch pans, \$4.00 and \$5.00 each.

## Beaucarnea

**RECURVATA.** A decorative plant of unique character; native of the highland parts of Mexico. A peculiarity of this plant is the large, round tuberous-like growth which forms at the base of the stem; in old specimens this increases to two or three feet in diameter. The foliage is long, narrow and gracefully arched, producing a specimen of very ornamental character. It may be used as a pot plant indoors and out; and makes in addition a very curious and decorative lawn specimen. Price, strong plants, eighteen inches to two feet high, each \$3.50. Large specimens, each \$5.00.

## Dracaena

**Doucettei and Lentuginosa.** These two varieties are very rare garden sports from the ordinary *Indivisia* type. The first named has foliage beautifully striped with white on a green ground. The markings run the full length of the leaf. The second named sort has foliage much the same color as "Crimson Fountain Grass," being a deep rich bronze. Fine specimens of either variety three feet high, each \$5.00; large, each \$7.50.

**Indivisia.** A very graceful and hardy subtropical plant with a slender central stem, and long linear recurved foliage. Largely used as a sidewalk plant in California. It does not lift cement walks when planted in parkings, etc., as so many trees do. This species will stand much exposure, and does well with a minimum amount of water. It makes a good tub plant for outside landings, etc. We have a large stock in all sizes. Price, small plants in three-inch pots, each 35 cents; strong stock three to four feet high, each \$1.00; extra large specimens from seven to twelve feet, price on application.

## Ficus

**Elastica.** Commonly referred to as the rubber tree. A splendid plant of highly decorative nature. The leaves are very long, broad, and a deep shining green. Small specimens are unsurpassed as choice table or parlor plants. One to eight feet high, \$1.00 per foot.

## Monstera

**Deliciosa.** One of the handsomest of all tropical foliage plants, with enormous dark green leaves; these are deeply lobed and notched at the edges, and curiously punctured with holes of irregular shape on the interior. The leaves attain a width of two feet by three and a half in length. The plant is of climbing habit, and sends out long aerial roots at intervals along the stem; these soon reach the ground, take root in the soil, and furnish the plant with needed moisture.

There is nothing more decorative for house culture. It

also does well against a wall, in any position where there is plenty of shade. It will not endure any freezing temperatures. Price, splendid specimens in six-inch pots, each \$5.00.

## Pandanus

**Veitchi.** One of the choicest of all interior decorative plants. The long leaves are gracefully curved, and are beautifully striped their entire length with creamy white and green. This plant requires a warm, sunny room or conservatory; it will not stand a low temperature. Price, strong plants in five-inch pots, each \$3.00.

## Philodendron

**SEEMANII.** One of the handsomest foliage plants in existence. It is of a dark rich green color, eighteen inches wide by two and one-half feet long. They are deeply notched at the sides, which gives the whole plant a highly decorative aspect. Unequaled as a house plant or for conservatory decoration. Very rare. Price, fine specimens in six-inch pots, each \$5.00.

## Phormium

**Tenax.** (New Zealand Flax.) This is a very easily grown plant of lasting nature adapted for tubs, urns, etc. The leaves are a grayish green, long and narrow. It is too coarse for interior work; as a porch plant or a specimen in the garden it is highly decorative. Strong plants, each \$1.00; extra large specimens in boxes, each \$2.50.

**Tenax Variegata.** Similar in form to *Tenax*, but with the leaves beautifully striped with yellow. Price, strong plants, each \$1.00.

## Yucca

**Pendula.** This specimen makes a beautiful specimen in Japanese tubs or pots and is of much value for porch decorations, landings, etc. It resists drought and does not burn in the most exposed situations. A few ivy geraniums planted to trail over the sides of the pots add materially to its beauty. Fine plants, in large pots, each \$1.00; extra strong, \$1.50.

**Radiosa.** A very scarce Arizona species, with long, needle-like leaves; these are covered with numerous slender, hair-like filaments, similar to those noted on the California Fan Palm. It makes an elegant tub specimen, and is equally valuable as a garden plant. Price, fine large plants in ten-inch pots or tubs, each \$2.50.



A MAKE-UP PLANT OF KENTIA BALMOREANA

# Ferns

The exceeding beauty and grace of ferns and their adaptability to so many various uses in the embellishment of the garden, house or conservatory, places them in the front rank of ornamental foliage plants. The following are a few of the best and most easily grown sorts:

## Adiantum

**Cuneatum.** The true Maiden-Hair Fern, and the best of all Adiantums. It requires either house or conservatory culture, being a tender species. The cut fronds are largely used in bouquets. Young plants, each 15 cents; per dozen \$1.50. Specimen plants, each 75 cents.

## Alsophila

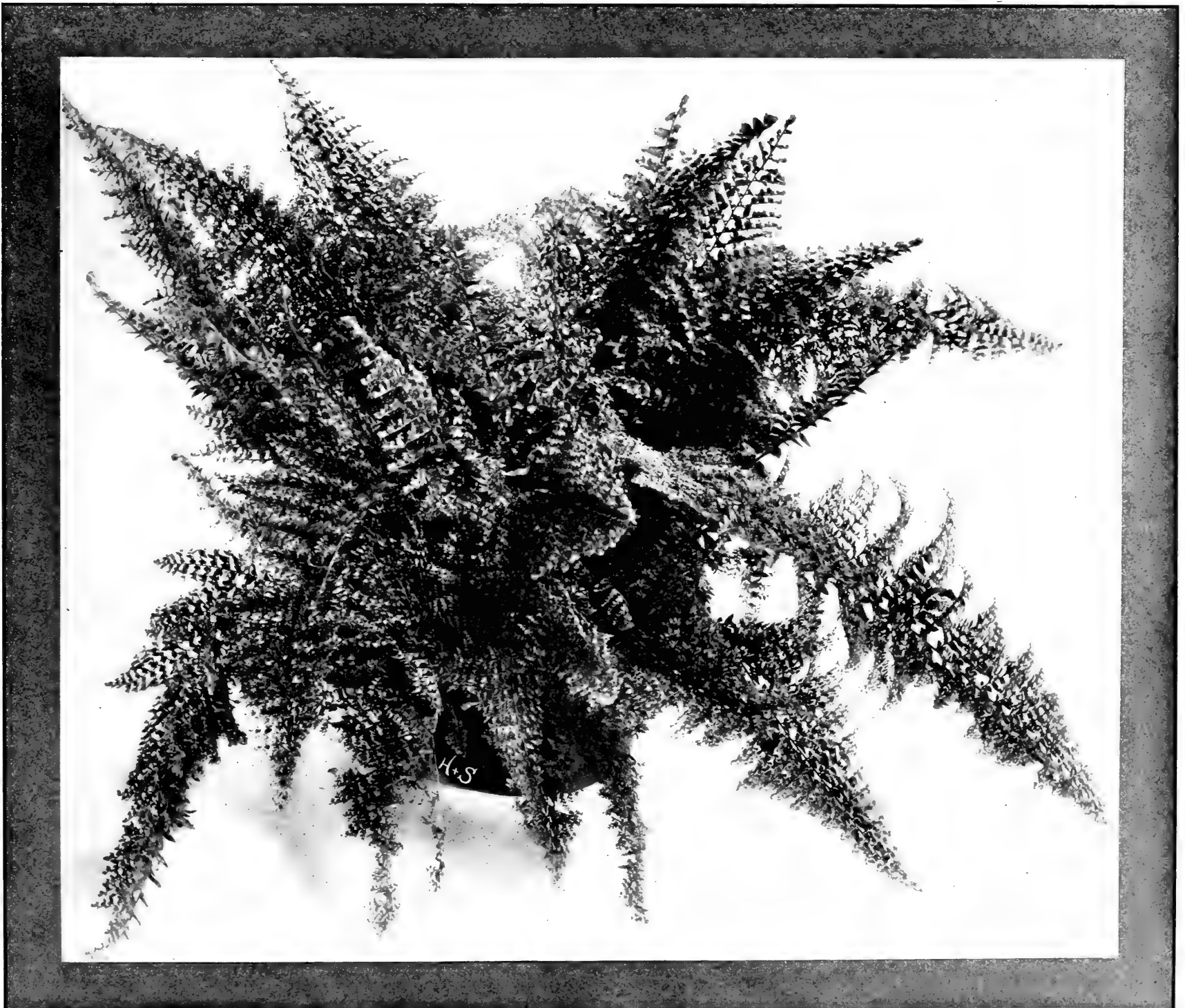
**Australis.** A very rapid growing tree fern suitable for large ferneries. The plant in a fully developed state is a magnificent thing. It attains a spread of several feet; the fronds are very broad and long, lace-like in appearance, and are admired by everyone. Price, small plants, each 50 cents; extra fine specimens, each \$2.50.

## Asplenium

**Nidus Avis.** (Bird's Nest Fern.) Very handsome species, with broad palmate leaves. The mid rib is black in color, with a foliage otherwise of a golden cast. A very desirable species for conservatories or indoor decoration, being quite distinct from all others. Price, strong young plants, each 50 cents. (See cut.)

## Aspidium

**Tsussimense.** A very dainty, compact grower, with dark green leaves. One of the best fern dishes, and equally good for the outdoor fernery. Young plants, each 15 cents; per dozen \$1.50; larger, each 35 cents; per dozen \$3.50.



NEPHROLEPIS AMERPOHLII



## Cibotium

**SCHEIDEI.** Unquestionably the most magnificent of all tree ferns. The foliage has a light golden yellow cast, and is very lacy in appearance. The fronds attain a length of several feet with a proportionate width. Difficult of propagation and always scarce. Price, fine plants in five-inch pots, each \$3.00.

## Cyrtomium

**Falcatum.** Sometimes called the Holly Fern. An elegant hardy species, with broad palmate pinnae of a deep glossy green color. It grows readily in pots or may be planted outside in a well shaded fernery. Each 25 cents; stronger, 35 cents.

## Lastrea

**Aristata.** With deeply cut fronds, and a band of yellow green through the middle of the pinnae. Price, each 15 cents, per dozen \$1.50.



ASPLENIUM NIDUS AVIS (BIRD'S NEST FERN)

**Chrysoloba.** With handsome dark green fronds, the young growth being prettily bronzed. Price, each 15 cents; per dozen \$1.50.

## Nephrolepis (SWORD FERNS)

These are probably the most useful of all ferns for house culture. They withstand the dry air of the living room, lasting for months in fine condition. The following are five of the best:

**Amerpohlii.** (See cut.) One of the daintest of all the numerous sports which have occurred from the Boston Fern. The plant is exceedingly dwarf in character, with very wide and delicate, lace-like fronds. It makes a superb plant for table decoration. Price, strong young plants from three-inch pots, each 25 cents; from five-inch pots, fine specimens, each 75 cents.

**Bostoniensis.** The well known Boston Fern. Taken in all its points, the most useful of all species and probably the most largely grown. Our stock, which comprises several thousand plants, is especially fine this season. Four-inch pots, each 25 cents; five-inch, 50 cents; six-inch, 75 cents; eight-inch, \$1.00.

**Piersoni.** Commonly known as the Ostrich Plume Fern. A sport from the well known Boston Fern, with the pinnae again sub-

divided and each having the appearance of a miniature leaf. A beautiful plant and quite feathery in appearance. Young plants, three-inch pots, each 25 cents; five-inch, 50 cents; eight-inch, \$1.00.

**Exaltata.** The old fashioned Sword Fern. Beautiful in shaded rockeries, ferneries, etc. Leaves long, narrow and quite upright in style of growth. Easily grown and useful for many purposes. Price, strong young plants, each 15 cents; per dozen \$1.50; from three-inch pots, each 25 cents; five-inch pots, each 50 cents.

## Pteris

The various species classed under this head offer a wide variation of frond form; are strong, thrifty growers, and taken as a whole, the most useful group of the family. They grow well in ferneries and are equally valuable for conservatory work.

**Adiantoides.** Very large, dark green pinnae, much resembling those on some of the larger Adiantums.

**Cretica Albra.** Broadly banded pure white through the center of the pinnae. Vigorous and hardy.

**Hastata.** The pinnae or leaves forming the frond are distinctly spear-shaped. A beautiful species.

**Ouvardii.** A pretty species with light green fronds.

**Tremula.** The Irish brake fern. Fronds very broad, and attaining a height of three to four feet. A fine variety of phenomenally rapid growth.

**Wilseni.** A lovely hybrid. The fronds in this sort are divided into numerous long and short pointed pinnae. Light green in color. A really beautiful thing.

Price of any of the preceding Pteris, two-inch pot plants, each 15 cents; per dozen \$1.50; four-inch pots, each 35 cents; per dozen \$3.50.

NOTE: In addition to the species above described, we have stocks, and can supply at all times the best various hardy species of our native California Ferns, such as the Adiantums, Woodwardias, Pteris, etc. They are splendid subjects for naturalizing in shady nooks, ferneries, etc.

# Palms

These are the stateliest and most majestic of all decorative plants, and by far the most largely used. We grow an immense quantity of the best varieties. Our stock of Kentias in all sizes is over fifty thousand. Of Cocos Australias, Cocos Plumosus, etc., we grow a proportionate number.

## Cocos

**Plumosus.** A tall, slender growing species from Brazil, with very narrow pinnae on long, beautifully arched stems. A fully developed branch might be well likened in shape (only on a much larger scale) to a perfect ostrich plume. It is, without any question, the most graceful of all palms grown in Southern California, and is largely used for planting in parkings, along driveways, etc.

Our stock is large, in splendid condition, and we can supply all sizes from young plants in two-inch pots up to specimens ten to twelve feet high.

Young plants not showing character leaves, eighteen inches to two feet high, each \$1.75; from four to five feet, each \$5.00; prices of larger sizes on application.

**Australis.** A magnificent, hardy palm quite different from the preceding, although under the same classification. The growth

THE ENTRANCE TO OUR NURSERIES. *COCOS PLUMOSUS* ALIGNING THE DRIVE

is more after the style of a Phoenix or Date Palm, but with a totally different appearance in general character. The leaf stems recurve towards the base of the plant, giving a graceful, arched effect. The foliage is gray-green in color.

This plant is very hardy, withstanding even the severe frosts of the colder portions of the San Joaquin Valley. It offers a wide planting range, and is one of the most graceful members of the palm family. We have a stock of several thousand, and anticipate a heavy demand when better known. A beautiful subject for the lawn, or in wide parkings, and unexcelled as a tub plant.

Price young plants in two-inch pots, each 20 cents; specimens two feet high, each \$2.50; four feet, each \$5.00.

### Chamaerops

**Excelsa.** A very hardy, compact growing variety suitable for sidewalk planting, etc. The trunk is covered with a brown fibre, which gives the plant a curious aspect. Leaf stems short, with the leaves of medium size, flat and rounded. Small plants, two feet high, each \$1.50; balled plants, four to five feet, \$3.00 each.

### Corypha

**Australis.** A very graceful and highly decorative Fan palm. The leaves are of medium size, carried on long, slender, spiny stems. As a porch plant it is extremely valuable. Fine specimens from seven-inch pots, each \$1.50; twelve-inch Japanese tubs, each \$5.00.

### Kentia

When it comes to the point of a lasting and beautiful specimen for indoor decoration the Kentia takes precedence over all

other cultivated species. It will thrive and grow for years in any ordinary living room, withstanding the naturally dry and harsh atmosphere characteristic of the interior of a building, with little more attention than judicious watering and an occasional repotting. It is advisable three or four times a year to give an ounce or two of blood and bone, stirring through the surface soil and watering afterwards.

**Baltimoreana.** A very handsome palm with narrow pinnae and gracefully arched and recurved stems. A gem for house culture; not hardy in the garden except in shady frostless locations.

**Fosteriana.** Similar to the above in general appearance, but with wider pinnae; stems more erect in habit and a much faster grower.

Price of the above two varieties: Four-inch pots, nice thrifty specimens, each 50 cents; made up plants (see cut), four to the pot, each \$5.00; plants three to four feet, each \$3.50; plants five to six feet, each \$7.50; plants six to seven feet, each \$9.00. For extra large specimens, price on application. We have them up to eighteen inch pots.

### Latania

**Borbonica.** A beautiful fan palm with long, slender stems; leaves bright, glossy green. The plant has a very wavy appearance and is one of the choicest fan palms for interior decoration. Extra fine large plants, with full six-foot spread, each \$5.00.

### Phoenix

**Canariensis.** One of the best outdoor palms, being very hardy in nature, and making splendid specimens in a comparatively

short time. This species is commonly referred to as the date palm. Fine specimens abound all over California. One of the best for lawn specimens; it also makes a splendid tub plant for landings, etc. We have a fine stock of the small plants ten to twelve inches high up to specimens eight to ten feet. Price, small plants, 50 cents; two or three feet, \$1.50; three to five feet, \$3.00 to \$3.50; larger, \$1.00 per foot.

**Roebelini.** A new and beautiful species introduced from Burmah a few years ago, which has since taken a leading position in the none too long list of palms suitable for interior decoration. It is an extremely slow grower, much the same shape as is general in Phoenix, but miniature in size. The pinnae are soft, light green in color, with gracefully arched stems. This palm exceeds Cocos Weddeliana in beauty, is hardier, and lasts under conditions which would kill the latter. We have experimented with this palm in the open garden, and are able to report that it is quite hardy planted out. It has a dainty appearance not found in any other species. Price, strong plants one foot high, each \$1.50; eighteen inches, each \$3.50; specimen plants, \$5.00 each.

## Seaforthia

**Elegans.** A slender trunked pinnate palm of exceptional elegance. This species is only suitable for planting out in warm locations, as it will not withstand many degrees of frost.

It ranks with Cocos Plumosus in beauty, although totally different character. The pinnae are arranged much after the manner of a Kentia. Young plants in three-inch pots, each 25 cents; four to five feet high, each \$5.00; immense specimens in large tubs, ten to twelve feet high, with fine, slender trunks, \$20.00 to \$25.00 each.

## Washingtonia

**Robusta.** The best type to be found in the California Fan Palm. A very dense and compact-leaved variety, with the base of the leaf stems a distinct reddish brown. This variety is much better in habit, color of foliage, etc., than the ordinary Washingtonia Filifera. Price each, balled plants three to four feet, \$1.50; four to five feet, \$2.00.

# Grasses

There is nothing more decorative in a well-planned garden than the various grasses. They are distinct in character from other plants, and lend a light, airy effect where used. Ranging as they do from miniature species to giants fifteen feet high, they may be used in a multitude of ways: for water gardens, to lighten the effect of heavy shrubberies, as individual lawn specimens, or in conjunction with tropical planting, they harmonize well and create a most pleasing effect.

## Arundo

**Donax Variegata.** This giant striped reed is well known in California, and is one of the most decorative plants we have. The foliage is very broad and beautifully striped with white on a green ground. It is of value either as an individual specimen or when used in conjunction with other grasses in waterside plantings or in tall background effects. Height fifteen to twenty feet. Price, strong divisions, each 50 cents; extra strong, each \$1.00.

## Asprella

**Hystrix.** A highly ornamental grass with slender spikes of flowers. This species is very graceful in character and of great value for bouquets, etc. Fine plants from three-inch pots, each 15 cents.

## Bamboo

Aside from their value as economic plants, there are few subjects more valuable for garden ornamentation, or which possess a greater delicacy and gracefulness of character than bamboos. They thrive in all the warmer parts of California, producing a wonderful growth and effect in an amazingly short space of time. For waterside plantings, lawn specimens or heavy jungle effects, they are of a lasting nature, increasing in beauty from year to year with but little attention beyond copious supplies of water.

**Dendrocalamus Latifolius.** The erect stemmed "Giant," with dense, broad-leaved foliage and enormous canes; these attain a diameter of four inches in fully developed specimens, with a height of forty-five to fifty feet. The canes are erect in habit, with the tip gracefully arched over. The whole specimen is foliated from top to bottom. Very scarce. Price, strong divisions, each \$5.00.

**Aurea Variegata.** A highly ornamental species with slender canes; beautifully striped yellow and green. Its maximum height is fifteen feet. Very ornamental when treated as a solitary specimen. Strong three-year-old clumps, each \$2.50.

**Nigra.** The black-stemmed species, suitable for planting in masses for jungle effects, etc. The black stems offer a high contrast to the deep green foliage. Strong plants, each \$1.50.

**Japonica.** A very hardy variety, with a strong creeping root stock. It makes a splendid hedge or cover plant; attains a height of ten feet. Strong divisions, each 50 cents.

**Simonii.** Variegated green and white. A handsome dwarf variety, attaining a height of ten feet, with a spread of equivalent amount. The leaves are prettily striped, white on a green ground; stems very slender and arched. Very choice. Price, strong three-year-old clumps, each \$2.00.

**Hookeriana.** A willowy type of recent introduction, with black stems and dark green leaves. A beautiful and distinct species which will be used for many purposes. Height about ten feet. Price, strong young plants, each \$1.00; large specimens, each \$2.50.

**Mitis.** A large-stemmed variety, largely cultivated in Japan for furniture, building purposes, etc. A rapid grower of graceful outline. Price, strong plants, each \$1.00.

**New Species.**—.—.— (From the Philippines.) We have never found anyone able to determine the correct nomenclature of this lovely variety. The original plants came from the Philippines; its origin is of small matter, however; its value lies in the fact that it is one of the most exquisitely graceful of all dwarf bamboos. The stems are hardly thicker than a lead pencil, beautifully arched and thickly covered with small, densely set pinnate foliage. Strong three-year clumps, each \$2.00.

**NOTE:** Where large numbers of bamboos are required, and no immediate effect desired, we can furnish small divisions of nearly all the foregoing sorts at a much reduced price.

## Carex

**Japonica.** A beautiful dwarf, hardy grass from Japan, attaining only a few inches in height. It makes a fine pot plant for interior decorations, as it remains in good condition for a long time. Used in the crevices of rocks in well protected ferneries, it adds much to the appearance of the bed. Price, strong plants, each 35 cents.

## Crimson Fountain Grass

(PENNISSETUM ATROSANGUINEUM)

This truly magnificent species, although introduced several years ago, is scarcely known to California gardens, and yet there



is nothing in the genus that approaches it in points of beauty and usefulness. The foliage and stems are a deep bronzy red, with a long, tassel-like inflorescence a rich crimson. The plant is of beautiful effect either in or out of bloom, and lends itself to any of the various purposes for which grasses are useful. By cutting the inflorescence while still in sheath, and drying in a cool place, they develop perfectly, and may be used for interior decorative purposes for a long time. It attains a height of six feet.

Price, each 20 cents; per dozen \$2.00; extra large five-inch pot plants, each 50 cents.

### Cyperus

**Alternifolius.** (Umbrella Grass.) Fine for growing in water, but it does equally well in pots. It also makes a fine specimen planted in the open ground. Young plants, each 25 cents; per dozen \$2.50.

### Erianthus

**RAVENNAE.** For sub-tropical gardens this grass is of especial value. It forms a dense tuft and when in bloom attains a height of five to six feet. One of the best of the taller grasses. Price, fine plants from three-inch pots, each 20 cents.

### Eulalia

**Univittata.** A graceful species, native of Japan, with narrow, rush-like foliage. The feathery heads of bloom are carried on long slender stems, and are gracefully arched. A fine water-side plant. Height six feet. Price, each 25 cents; per dozen \$2.50.

**Zebrina.** Similar in habit to univittata, but with slightly wider leaves, handsomely banded with white on a green ground. Height six feet. Price, each 25 cents; per dozen \$2.50.

### Festuca

**Glauc.** A fine hardy grass which attains a height of ten to twelve inches. The tufts are dense, and the whole plant has a

glaucous blue color. One of the finest edging plants grown. Price, each 10 cents; per dozen \$1.00.

### Gynerium

**Argenteum.** The common pampas grass of South America; well known for its beautiful silvery plumes. A fine plant for garden ornamentation, and especially useful in obtaining tropical effects. We obtained a very telling color effect last season by planting them in the background of our canna field, the red of the cannas against the large silvery plumes of pampas being distinctly beautiful. Strong clumps from the open ground, 50 cents and \$1.00 each.

### Isolepis

**Gracillis.** A dainty dwarf grass, bright green in color; suitable for indoor decoration. It forms dense tufts of green in small pots and is of splendid value for mixing in fern dishes or for the margins of greenhouse benches. Price, each 15 cents.

### Panicum

**Variegatum.** A prostrate creeping species with reddish stems and prettily variegated green and white foliage. A fine thing for hanging baskets, shady beds where a cover plant is desired, etc. Price, each 15 cents; per dozen \$1.50.

### Papyrus

**Antiquorus.** From the valley of the Nile, and commonly referred to as the Egyptian Paper Plant. It is one of the most ornamental of all grasses, and one of the easiest to grow. The tall, feathery appearance of the plant is graceful in every sense of the term. It is a moisture-loving species, requiring a wet or damp ground, doing splendidly on the margins of lily ponds, etc. Strong plants from six-inch pots, each 50 cents.

## Choice Conifers

WE HAVE included under this head a few of the best varieties suitable for the climatic conditions of the Western United States. The vast importance of certain conifers as subjects to reclaim our barren hillsides, while slightly regarded up to the present time, will eventually be a matter which will require the serious consideration of the horticulturists of our state. Aside from their value as ornamental subjects in the garden, they are important factors in the conservation of our water supply, in that they retard the erosion prevalent in mountainous sections.

Regarding our own section of California, the value of exotic trees has been well demonstrated. From a comparatively arid, treeless waste has sprung a vast garden with a series of plants from every clime, an aggregation in fact second to none in the world. Conifers, both native and exotic, have played a most important part; some of the species withstand drought to a remarkable degree, vying in this respect the Eucalyptus of Australia, and making at the same time a more beautiful and noble tree.

### Abies

**Firma.** An elegant Japanese fir which is without question one of the most beautiful of all species. The pinnae are dark green in color, rather broad and densely set. This tree attains a height of one hundred feet. A fine thing in its young state for Japanese gardens. Strong young plants, 12 to 18 inches high, each 75 cents.

**Polita.** Also a Japanese species with much the same character as the preceding variety. It is adapted to our climate and makes a splendid lawn specimen. Price, each 75 cents.

### Araucaria

**Bidwilli.** (Norfolk Island Pine.) One of the handsomest of all conifers. Foliage dark glossy green; branches in tiers at regular intervals. Very scarce. Strong balled plants, from two feet up to ten feet, \$1.25 per foot.

**Excelsa.** Similar in habit to the foregoing variety, but with light green foliage, needle-like in appearance. We have a large stock of this valuable conifer in all sizes from one foot high to magnificent specimens ten feet and over. Price, plants one to five feet in height, per foot \$1.00; larger specimens, prices on application.

### Cedrus

**DEODARA.** This magnificent forest tree is a native of the Western Himalayas, and may justly be regarded as one of the most ornamental of conifers.

The whole plant is of bluish cast, much the same color as noted in the Colorado Blue Spruce. Eminently adapted to our climate and beautiful either as a single specimen or in group effects in large places. It is also recognized by government experts as a very desirable species for the reforestation of our mountain sections. Price, two to three feet high, \$1.50; three



A BLOCK OF LARGE ARAUCARIA EXCELSA AT OUR NURSERIES (See Page 53)

to four feet, \$3.00; four to five feet, \$3.75; five to six feet, \$5.00.

**Deodara Verticillata.** A fine form of *Cedrus Deodara*, with very thick set, dense foliage. Price, fine trees, five to six feet high, each \$5.00.

**Libana.** The true cedar of Lebanon, and one of the most magnificent of the entire family. The branches are more or less horizontal in outline, and are densely set with short, dark green leaves. A splendid tree for large gardens or as a subject for the reforestation of mountain sections. Price, three foot specimens, each \$1.50.

### Cryptomeria

**Elegans.** This is undoubtedly the most elegant species of all the *Cryptomerias*. It retains its autumnal color of bronzy crimson throughout the winter. A native of Japan, and now largely planted throughout California. Young plants, each 75 cents; larger sizes on application.

**Japanica.** A very rank growing species with stout, erect trunk; not unlike the *Araucaria Excelsa* in appearance, but without the set appearance of the latter. Fine plants 2 to 3 feet, each \$1.00.

### Cupressus (Cypress)

**ARIZONICA.** A blue pyramidal species from Arizona and Northern Mexico. One of the handsomest of all cypress. Unequalled as a lawn specimen. Six to eight foot trees, price each \$3.00.

**FUNEBRIS.** An elegant species from China, with pendulous branches, which give the tree a graceful and airy appearance. Of great beauty as an individual lawn specimen. Balled plants three to four feet high, each \$1.50.

**Italian.** This well known variety is of slender, tapering growth. Although somewhat stiff in general appearance, it is indispensable in formal gardening. Young plants, each 50 cents; 5 to 6 foot trees, each \$1.50.

**Lawsoniana.** One of the grandest of our native trees. The leaves are dark, glossy green, more or less tinted with a bluish hue. Of elegant pyramidal habit, well clothed with foliage from base to top. Five to six feet, \$3.50.

**Lusitanica Glauca.** A beautiful species indigenous to Southern Europe. The branches are somewhat pendulous in growth with glaucous green foliage. One of the handsomest of all cypress, and especially adapted to dry climates. Fine specimens, 6 to 7 feet, each \$3.50.

**Macrocarpa (Monterey Cypress).** A native of California, and one of the most largely grown of all conifers. A stately specimen tree, attaining a height of one hundred feet, and of great value for hedges, as it may be trimmed into any desired shape. Price, small plants in flats, per hundred, \$2.00; three-inch pots, each 15 cents.

### Libocedrus

**DECURRENS.** This distinct species is a native of the coast range and the Sierra Nevada Mountains of our own state.

Whether large or small of size, it is an exceedingly handsome tree. The foliage is a very dark, rich green; the tree is columnar in shape attaining a height of one hundred and fifty feet. It is a drought resisting tree and especially adapted to dry localities. Fine plants, two to three feet high, each \$1.00; three to four feet, each \$1.50; four to five feet, each \$2.00. A few larger sizes, prices on application.

### Picea

**Pungens (Colorado Blue Spruce, Koster's).** Valuable as a garden specimen only in Southern California. A lovely species on account of its deep blue foliage and formal character of growth. Should be planted in all large gardens. Fine plants, pot grown, grafted, 2 feet high, each \$2.50; 3 feet high, each \$5.00.

### Pinus

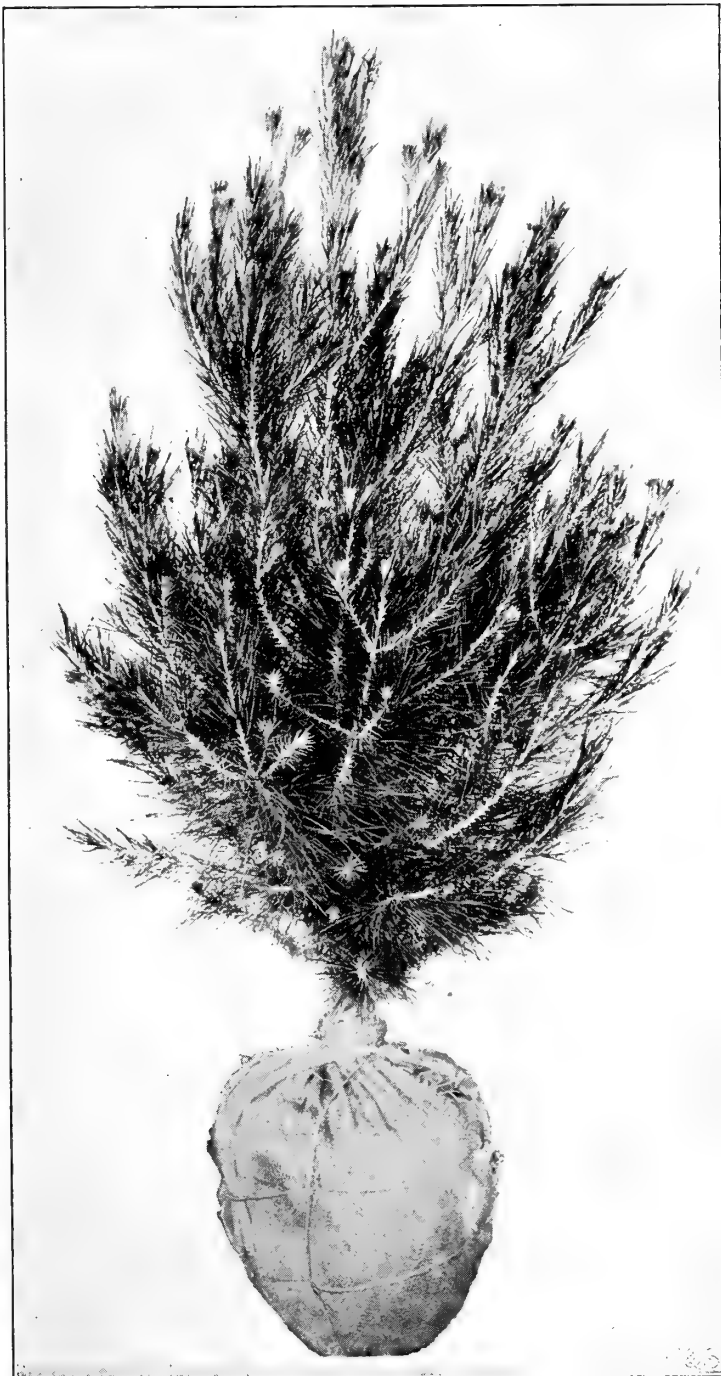
**Canariensis.** One of the most graceful of all pines. The branchlets are drooping in habit, with long dark green needles. A strong vigorous grower, well adapted to dry hillsides, etc. Strong plants, 2 to 3 feet, balled, each 75 cents.

**Densiflora.** A fine species from Japan, which attains a height of 50 to 60 feet. A splendid specimen on large lawns, and capable of withstanding wet or dry conditions. Young plants, 18 inches high, 35 cents.

**HALAPENSIS.** (See cut.) One of the most valuable of all species, as it withstands the harsh conditions incidental to planting it on the dry hillsides of California. In addition to its good quality in the above respect, it is a handsome tree in every sense of the word. Needles short, growth dense. Height fifty to sixty feet. We have a large stock of this variety. Fine plants, balled, three to four feet, each \$1.50.

**Insignis.** The well known Monterey Pine; a native of California, and to be regarded as one of the noblest of all our forest trees. It grows with great rapidity and soon forms striking specimens. Its uses as an ornamental plant are varied, being equally valuable as a garden specimen, the alignment or broad drives, or for the forestation of barren hills. Specimens 4 to 5 feet high, each 75 cents.

**Pinea (Storm or Parasol Pine.)** The great beauty of this species lies in its broad, spreading top, which is distinct in every way from the pyramidal growth of most pines. There is a picturesqueness about it different from most of its congeners, which should make it one of the most largely planted of all. It does well near the seashore and prefers soils of rather a light nature. Fine plants 4 to 5 feet high, each \$1.50.



A BALLED PLANT OF PINUS HALAPENSIS, THE COM-  
ING PINE FOR DRY SECTIONS IN CALIFORNIA

**Sciadopitys.** One of the loveliest of the various Japanese conifers. In its small stages it is one of the most decorative plants for interior or porch decoration, and it is unequalled as a garden specimen. It requires plenty of moisture and should have a background protection of smaller trees. Extra choice specimens, each \$5.00; larger sizes, prices on application.

### Sequoia

**Gigantea (Giant Redwood).** Unquestionably the grandest of all forest trees, and equally valuable as a subject in gardens. Native to Central California and noted everywhere for its immense size and beauty. They are not adapted to dry hillside planting, as they require a bountiful supply of moisture. In gardens where artificial watering is resorted to, they grow rapidly and soon form beautiful specimens. Fine specimens 4 to 5 feet, each \$5.00.

**Sempervirens (California Evergreen Redwood).** This elegant species differs in general appearance from the foregoing in its less dense growth, and if anything, more graceful character. It does best near the coast, and is largely planted in various parts of Southern California. Very rapid in growth, soon forming a noble tree. 4 to 5 feet plants, balled, each \$3.50.

### Taxus

**Baccata (Variety Fastigiata).** The well known and famous Irish Yew. A very slow growing tree, but one of the most useful of the smaller conifers for the garden. Price, fine plants 4 to 5 feet high, each \$5.00.

### Thuja

**Occidentalis (American Arborvitae.)** Similar in many respects to the variety Orientalis, but not so dense in growth. It makes a larger specimen and is very decorative in character. Price, plants 18 to 24 inches high, each \$1.00.

**Orientalis (Chinese Arborvitae.)** A very compact type of Arborvitae which attains a height of from fifteen to twenty feet. It is strictly an evergreen, and of great value as a garden specimen. It does best in moist positions. Price, fine plants 18 to 24 inches high, each \$1.00.

**Tartarica.** Similar in general outline to the preceding varieties, but denser and more compact in habit of growth. Price, 18 inches to 2 feet, each \$1.00.

NOTE: In addition to the various conifers above described, we have a fine collection of the different ornamental varieties of Firs, Junipers, Pines, etc.



## A Few Choice Herbs

which should find a place in every well ordered garden

**BALM (Meliss.)** Foliage when crushed emits a delicious fragrance similar to Lemon Verbena.

**THYME (French.)** Well known to all good cooks and useful as a border plant.

**LAVENDER (True.)** Indispensable to the home garden.

**LAVENDER SPICA.** Similar to the preceding, but with different foliage; highly scented.

**CAT-MINT.** Fine for seasoning, Juleps, etc.

**SAGE.** A well known plant for seasoning purposes.

**SWEET MARJORAM.** Highly fragrant foliage.

**POT MARJORAM.** Similar to the above, but dwarfer.

**ROSEMARY.** The true well known old variety.

**SPEAR-MINT.** The Common variety.

Price, fine strong plants of any of the above, in three-inch pots, each 15 cents; per dozen \$1.50.

**SPECIAL OFFER:** One plant of each of the above herbs for \$1.00.

## Seeds

**WE OFFER** the following list of some of the best varieties of Choice Florist Flower Seeds. They are, with few exceptions, seeds of our own saving, and may be relied on for high vitality and good germinating qualities. During the past season we received many voluntary reports from customers attesting their quality. Our seeds are all put up in liberal packages, and if given the care needed in sowing, watering, etc., they will produce a bountiful crop.

We solicit a trial of our stock, and feel certain that the results will please the most exacting growers.

### Antirrhinum

**Amber Queen.** Canary yellow, overlaid with pink. Per packet, 15 cts.

**Carmine Queen.** Rich rose carmine, very effective. Per packet, 15 cts.

**Golden Morn.** Raspberry red and old gold. Per packet, 15 cents.

**Rosy Morn.** Pale rosy pink, a very delicate shade. Per packet, 15 cts.

**Pink Pearl.** White, shaded peach blossom. Per packet, 15 cents.

**Delicata.** Pink on white ground; very pretty. Per packet, 15 cts.

**Majus Brilliant.** Bright scarlet and yellow. Per packet, 10 cents.

“ **Galathee.** Reddish yellow and white. Per packet, 10 cents.

“ **Ghestia.** Deep crimson, very bright. Per packet, 10 cents.

“ **Cottage Maid.** Pale pink with white throat. Per packet, 10 cents.

“ **Fairy Queen.** Orange salmon with white throat. Per packet, 10 cents.

“ **Rose Dore.** Salmon pink and gold. Per packet, 10 cents.

“ **Ruby.** Rich ruby pink. Per packet, 10 cents.

“ **Salmon Pink.** Very rich rose pink. Per packet, 10 cents.

“ **Queen Victoria.** The best pure white. Per packet, 10 cents.

ers are in clean decided colors, and are simply invaluable for cutting and bedding purposes. They come into bloom during early fall, and continue in blossom through a period of several weeks.

White .....	Per packet	15 cents
Rose .....	“ “	15 “
Lavender .....	“ “	15 “
Crimson .....	“ “	15 “
Purple .....	“ “	15 “
Dark Violet .....	“ “	15 “
Pink .....	“ “	15 “
Mixed, all colors.....	“ “	10 “

### Aquilegia (Columbine)

The long spurred hybrids are amongst the loveliest of perennial flowering plants. The strain is an exceedingly choice one.

**Hybrids of Coerulea.** Per packet, 15 cents.

**Chrysantha.** The long spurred yellow Rocky Mountain Columbine. Per packet, 10 cents.

### Balsams (Double Camellia Flowered)

Very fine mixed colors. Per packet, 10 cents.

### Calendula (Pot Marigold)

**Meteor.** Lemon with orange stripes. Per packet, 10 cents.

**Prince of Orange.** Deep orange. Per packet, 10 cents.

### Asters

**Vick's Late Branching.** A magnificent strain of late branching Asters, growing about two feet in height. The enormous flow-



*H-S.  
Special Strain of  
Annual Chrysanthemums*

**Lemon Queen.** New large flowered. Sulphur color. Per packet, 10 cents.

## Calliopsis

**Annual Varieties.** Choice mixed. Per packet, 10 cents.

**Tom Thumb, Chimson King.** A dainty variety for borders. Per packet, 10 cents.

**Tom Thumb, Beauty.** Yellow with a crimson center. Per packet, 15 cents.

## Candytuft

**Carmine.** A very rich and striking color for bedding purposes. Per packet, 10 cents.

**Crimson.** Bright crimson. Per packet, 10 cents.

**Giant Hyacinth Flowered.** The best of all pure whites. Per packet, 10 cents.

## Canterbury Bells

**Dean's Improved Hybrids.** Mixed shades..... Per packet 10 cents

Double White .....	"	"	10	"
Double Blue .....	"	"	10	"
Double Rose .....	"	"	10	"

**Calycanthemum.** Clematis flowered varieties.

Blue .....	Per packet	15	cents
Mauve .....	"	15	"
Lavender .....	"	15	"
White .....	"	15	"
Bright Rose .....	"	15	"

## Carnation

**Double Marguerite.** Per packet, 15 cents.

## Celosia

**Thompsoni Magnifica.** A choice strain of feathered cockscombs, containing all colors. Per packet, 10 cents.

## Chrysanthemum (Annual Varieties)

**Tricolor. (See Cut.)** A special mixture of our own, containing many rich and beautiful colors. Per packet, 10 cents.

## Cockscomb

**Dwarf Crimson.** A splendid equally formed comb. Per packet, 15 cents.

**Dwarf Rose.** A pretty rose colored comb. Per packet, 15 cents.

**Dwarf Golden.** Golden yellow comb. Per packet 15 cents.

## Cosmos

**New Early Varieties.** Rose, White and Crimson. Per packet, 10 cents.

**Lady Lennox.** The largest flowered of all Cosmos. Beautiful pale pink. Per packet, 15 cents.

## Dianthus

**Chinensis.** Splendid annual for summer bedding. Choice mixed double varieties in all shades. Per packet, 10 cents.

**Superbissimus.** A very fine large flowered strain of single varieties. Per packet, 10 cents.

**Laciniatus.** With deeply fringed and notched blooms. Extra choice. Per packet, 10 cents.

## Digitalis (Fox Glove)

**Gloxinoides.** A very large flowered strain of Fox Gloves, containing a good range of colors with white throats. Per packet, 10 cents.

**Spotted Varieties.** Prettily spotted flowers, somewhat smaller in size than the preceding strain. Per packet, 15 cents.

**Monstrosa.** Probably the largest of all Fox Gloves. Per packet, 15 cents.

## Larkspur

**Hyacinth Flowered Giant.** Of splendid quality. Very double. Per packet, 10 cents.

## Lobelia

**Compacta, Crystal Palace.** One of the best medium blue lobelias. Per packet, 10 cents.

**Compacta, Emperor William.** Dwarf dark blue. Per packet, 10 cents.

**Compacta, White Pearl.** Dwarf pure white. Per packet, 10 cents.

## Marigold

Nothing can exceed the beauty of well grown beds of marigold. From early summer until cut down by frost they are constantly in bloom.

**African.** Lemon colored. Giant flowers. Per packet, 10 cents.

**African.** Orange colored. A deep shade of orange. Per packet, 10 cents.

**French Striped.** A dwarf strain of striped brown and gold colors. Per packet, 10 cents.

**French Striped Grandiflora.** Very large blooms. Striped and blotched. Choice. Per packet, 15 cents.

## Mignonette

**Sweet Scented.** The common variety. Per packet, 10 cents.

**Machet.** Large spikes, very fragrant. Per packet, 10 cents.

**Orange Queen (New).** Beautiful orange red color. Machet type, choice. Per packet, 15 cents.

## Myosotis (Forgetmenot)

**Dissitiflora.** Very large, pale blue flowers. Per packet, 10 cents.

## Nasturtium

The following varieties and mixtures are of choice quality:

**Tall, Special Mixture.** A strain of unrivalled quality, containing all known colors, with very large blooms. Per packet 10 cents.

<b>Tall, Bronze.</b> A fine deep shade.....	"	"	10	"
" <b>Dark Crimson.</b> Almost black.....	"	"	10	"
" <b>Scarlet.</b> Bright and effective.....	"	"	10	"
" <b>Sunlight.</b> Deep golden yellow.....	"	"	10	"
" <b>King Theodore.</b> Bright crimson.....	"	"	10	"
" <b>Shillingii.</b> Yellow spotted.....	"	"	10	"

## TOM THUMB (DWARF)

**Empress of India.** Intense crimson ..... Per packet 10 cents

**H. M. Stanley.** Bronze yellow..... " " 10 "

**King.** Brilliant scarlet..... " " 10 "





*Scabious  
Azure Fairy*

<b>King Ruby.</b> Deep rose.....	Per packet	10 cents
<b>King Carmine.</b> Rich velvety carmine.....	" "	10 "
<b>King Golden.</b> Rich golden yellow.....	" "	10 "
<b>Rudolph Virchow.</b> Venetian flame color.....	" "	10 "
<b>Terracotta.</b> Terracotta and salmon.....	" "	10 "
<b>Beauty of Malvern.</b> Orange scarlet.....	" "	10 "
<b>Special Mixture.</b> Extra choice.....	" "	10 "

## Nicotiana Affinis (Night Blooming Tobacco)

Flowers pure white, deliciously scented. Per packet, 10 cents.

## Phlox

**Drummondii Grandiflora.** Splendid mixed, in all colors. Extra Choice. Per packet, 10 cents.

## Pansies

We make a specialty of fine pansies. The seed we offer is of the finest quality, with immense blooms of splendid texture.

**Giant French.** Enormous flowers beautifully blotched. Per packet, 25 cents.

**H. & S. Special.** There is no finer strain in existence. Flowers of gigantic size with immense velvety blooms. Particularly rich in shades of red, wine color, mahogany, yellow blotched, etc. Very shy seeders. Per packet, 50 cents.

**Faust.** A very large flowered pure black. Per packet, 15 cents.

**Lord Beaconsfield (Improved).** Deep violet and white. Per packet, 15 cents.

**Large Flowered White.** The best of this color. Per packet, 15 cents.

**Emperor William.** Splendid deep blue. Per packet, 15 cents.

**Prince Henry.** Rich indigo blue. Per packet, 15 cents.

**Yellow Giant.** Immense blotched flowers. Per packet, 15 cents.

**Golden Queen.** Large pure yellow. Per packet, 15 cents.

**Brilliant.** Fiery red with black blotches. Per packet, 15 cents.

## Petunias

**Single Fringed, Stained and Mixed.** A grand single strain of Petunias which are of special value for bedding purposes. Per packet, 15 cents.

## Poppy

**Double Carnation.** Mixed. A special mixture of over twenty colors. Per packet, 10 cents.

**Double Paeony Flowered.** With enormous blooms in a great variety of colors. Per packet, 10 cents.

**Single. "The Shirley."** A choice strain of these lovely single poppies. Per packet, 10 cents.

## Salpiglossis

**Emperor.** A magnificent strain with a wide range of colors. Per packet, 10 cents.

## Scabious

**Azure Fairy.** (See Cut.) With large pale blue flowers. A gem for cutting. Per packet, 15 cents.

## Shasta Daisy

A splendid selection of single large flowered types. Per packet, 10 cents.

## Stocks

### H. & S. SPECIAL STRAINS

Producing a very high percentage of double blooms. Seed saved exclusively at Montebello.

**Beauty of Nice.** Flesh pink. Per packet, 15 cents.

**Giant White.** Pure snow white. Per packet, 15 cents.

**Giant Fleshy White.** White overlaid pink. Per packet, 15 cents.

**Giant Carmine.** A fine deep color. Per packet, 15 cents.

**Giant Purple.** A splendid selection. Per packet, 15 cents.

## Verbena (Mammoth)

Trusses of immense size. Colors bright and clear. Per packet, 15 cents.

## Zinnia

**Very Dwarf Scarlet.** A magnificent bedding variety, with innumerable dark scarlet flowers. Per packet, 15 cents.

**H. & S. Mammoth Strain.** (See Cut.) These bear flowers five to six inches in diameter. There is nothing grown to surpass them. Per packet, 15 cents.

# Landscape Department

We make a specialty of landscape work and are prepared to furnish plans and specifications for the laying out of new grounds, or the renovation of old ones.

Our experience in this class of work covers many years and has been extensive and thoroughly practical. We invite correspondence with parties who have large plantings to perform whether they be for private grounds or public parks and gardens.

HOWARD & SMITH



*H & S Giant Zinnias*



# Index

<b>A</b>		<b>I</b>		<b>Q</b>	
Abelia	54	Iris	50	Quercus	59
Abutilon	65	Isatis	41		
Abies	71	Ismene	53	<b>R</b>	
Acanthus	34	Isolepis	71	Rynchospermum	63
Acacia	54	Ivy	62	Romneya	59
Achyranthes	64			Roses	3
Adiantum	67	<b>J</b>		Rudebeckia	44
Agathea	34	Jacaranda	57	Russellia	44
Ageratum	34	Jasmine	62		
Agapanthus	47	<b>K</b>		<b>S</b>	
Althea	54	Kennedya	62	Salvia	44
Alternanthera	64	Kentia	69	Santolina	65
Alsophila	67			Salpiglossis	78
Amaryllis	47	<b>L</b>		Scabious	78
Ampelopsis	60	Larkspur	37	Schinus	60
Antirrhinum	74	"	76	Sciadopitys	73
Anchusa	34	Lantanas	42	Senecio	45
Anemone	34	Lanrestinus	57	Sedum	45
Anemopaegma	60	Lagenaria	57	Seaforthia	70
Anthericum	65	Lathyrus	62	Sequoia	73
Aquilegia	74	Lastrea	68	Shasta Daisy	45
Armeria	34	Latania	69	"	78
Arabis	34	Lemon Verbena	57	Smilax	63
Aralia	55	Lepospermum	58	Snowball	60
Arundo	70	Linum	58	Suail Vine	63
Araucaria	71	Liriodendron	58	Solidago	45
Asters	74	Libocedrus	72	Solanum	63
"	34	Lobelia	43	Solandra	63
Astilbe	54	"	76	Sollya	63
Asparagus	65	"	65	Sparaxis	53
Aspidium	67	<b>M</b>		Statice	44
Aspidistra	65	Marguerites	43	Sterculia	60
Asplenium	67	Magnolia	58	Streptosolon	63
Asprella	70	Mahonia	58	Stigmaphyllon	63
<b>B</b>		Mandevillea	62	Stocks	78
Balsams	74	Marigold	76	Swainsonia	60
Bamboo	61	Mignonette	76		
"	70	Moschosma	58	<b>T</b>	
Begonias	36	Morus	58	Tacsonia	63
"	47	Moon Vines	62	Tamarix	60
Berberis	54	Monstera	66	Taxus	73
Betula	54	Muhlenbeckia	62	Tecoma	64
Beaucarnea	66	Myrtus	58	Thunbergia	64
Bignonias	60	Myosotis	76	Thuya	73
Boltonia	37			Transvaal Daisy	40
Bougainvillea	61	<b>N</b>		Tritoma	45
Borders Plants	64	Nandina	58	Tuberose	53
Bulbous and Tuberous		Nasturtiums	76		
Rooted Plants	47	Nephrolepis	68	<b>V</b>	
Buxus	54	Nicotiana	78	Verbena	45
<b>C</b>				"	78
Carnations	13	<b>O</b>		Veronica	60
"	76	Oleander	58	Vines	60
Canterbury Bells	37	<b>P</b>		Vinca	64
"	76	Papaver	43	Violets	46
Candytuft	76	Passiflora	63	Vitis	64
Calliopsis	76	Pandanus	66		
Calendula	74	Palms	68	<b>W</b>	
Carex	70	Panicum	71	Washingtonia	70
Catalpa	55	Papyrus	71	Wigelias	60
Casurina	55	Pansies	78	Wistaria	64
Caryopteris	54	Pelargoniums	31		
Cassia	54	Perennial Flowering Plants	34	<b>Y</b>	
Campanula	37	Penstemons	43	Yucca	66
Camellias	54	Petunias	43		
Calla Lily	50	"	78	<b>Z</b>	
Caladium	50	Phlox	28	Zinnia	78
Cannas	26	"	78		
Ceanothus	55	Philadelphus	58		
Cedrus	71	Philodendron	66		
Cercis	55	Phormium	66		
Centaurea	64	Phoenix	69		
Chamaerops	69	Pittosporum	58		
Chenostoma	37	Pithecoctinium	62		
Chrysanthemums	15	Picea	73		
Chrysanthemum	76	Pinus	73		
Cibotium	68	Platanus	58		
Clianthus	61				
Clematis	61				
Clivia	50				
Cosmos	76				
Cockscomb	76				
Conifers	71				
Corypha	69				
Cocos	68				
Coleus	65				
Cobea	61				
Cotoneaster	55				
Coprosma	55				
Coreopsis	38				
Columbines	38				
Cryptomeria	72				
Crimson Fountain Grass	70				
Crataegus	55				
Cupressus	72				
Cuphea	38				
Cyperus	71				
Cyrtomium	68				
Cytisus	55				
<b>D</b>					
Dahlias	19				
Daisies	65				
Decorative Plants	65				
Delphiniums	38				
Dioclea	61				
Dianthus	76				
Digitalis	76				
Dolichos	61				
Dracaena	66				
Duranta	61				
<b>E</b>					
Erianthus	71				
Erica	55				
Erythrina	55				
Escallonia	55				
Eucalyptus	56				
Eulalia	71				
Euonymus	56				
Eupatorium	56				
<b>F</b>					
Ferns	67				
Festuca	71				
Ficus	56				
"	62				
"	66				
Flower Seeds	74				
Fuchsias	33				
<b>G</b>					
Gazania	38				
Genista	56				
Geranium	29				
"	65				
Gerbera	40				
Ginkgo	56				
Gladiolus	50				
Grasses	70				
Grevillea	56				
Gynerium	71				
Guava	56				
Gypsophila	38				
<b>H</b>					
Habrothamnus	56				
Helianthus	38				
Heliotrope	40				
Hemerocallis	41				
Herbs	74				
Heuchera	40				
Hibiscus	56				
Hollyhocks	41				
Honeysuckle	62				
Hoya	62				
Hunnemannia	41				
Hydrangea	56				
Hypericum	57				

# Hardy Tea Roses.

## Everbloomers.

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This list of Roses is selected from over 200 varieties as the cream for planting. They are all two years old, cut back to three feet, stocky, with heavy roots. The prices quoted are prepaid to your city.

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- ✓ **Gladys Harkness**—Hardy Tea. One of the prettiest roses in our field, of very upright growth, bloom large and full, pretty in bud and flower. Color, rich cerise pink, which does not fade. Very fragrant. Each, 35c.
- Helene Bambier**—Hardy Tea. A charming new rose, of French origin. Free bloomer, compact bush. Color, copper-yellow to deep amber-yellow, changing to lemon-yellow in outer petals. A splendid garden sort. Price each, 25c.
- ✓ **Jubilee**—Hardy Rose. One of the richest, velvety, dark-red sorts; clean; one of our best bloomers. 25c.
- ✓ **Kaiserin Augusta Victoria**—Hardy Tea. This is easily the grandest and most beautiful white, ever-blooming rose extant, Price, 25c. each.
- ✓ **Madame Jules Grolez**—Hardy Tea Pol. Similar in growth and foliage to the Kaiserin. Color, cherry-red. Valuable. Price, 35c. each.
- ✓ **James Sprout Bourbon**—A strong, robust and constant bloomer; foliage dark; medium size flowers, of very rich cherry red. 25c. each.
- Defiance**—Hardy Tea. One of the newest roses; fine for bedding; grows bushy and compact; a good bloomer; rich dark red. 50c. each.
- ✓ **Viscountess Folkstone**—Hardy Tea. A tip-top good sort in every sense of the word. One of the best all-around garden varieties, of a delicate flesh color. 25c. each.
- ✓ **Dean Hole**—Hardy Tea. Silvery ermine, shaded salmon. Large, full and fine form; one of the real grand roses. 50c. each.
- ✓ **Oriole**—Hardy Tea. So good that we are proud of offering it. Especially adapted to garden culture. Upright clean growth, charming buds, pure golden yellow. 50c. each.
- ✓ **Francis Kruger**—Tea. A popular rose, similar to Catherine Mermet. Color, coppery pink. Each, 25c.
- Lady Hillingdon**—Tea. A very striking and lovely rose. Long, slender, pointed buds, of beautiful deep apricot and chrome yellow; free flowering; very decorative. 50c. each.
- ✓ **Etoile de France**—Hardy Tea. A new French rose, very rich, for garden culture. Upright habit, blooms continually, long stems, a rich velvety crimson. 25c. each.
- ✓ **Madame Abel Chatenay**—Hardy Tea. A good rose that has been extensively grown. Color, a beautiful creamy rose, shaded with rose and vermillion and tinted with salmon. 25c. each.
- ✓ **Jonkheer Mock**—Hardy Tea. Splendid, upright, strong grower, producing its flowers on long, stiff stems and in abundance; beautifully formed and fragrant. Color, imperial pink. 50c. each.
- ✓ **Souvenir de Wooten**—Hardy Tea. A splendid grower and free from disease. Flower large and full. The color is a beautiful shade of carmine crimson. 25c. each.
- Sunbeam**—New, of prime merit, foliage clean and good, light green; handsome buds. Color, light yellow. 25c. each.
- ✓ **Prince de Bulgaire**—Hardy Tea. Growth bushy, foliage bright green. A persistent and constant bloomer. Color of a delicate pink, shaded to salmon. 25c. each.
- ✓ **White Killarney**—Hardy Tea. A sport from Killarney. Large, long, pointed buds of pure white. 35c. each.

- Magna Charta**—Hardy Rose. Old and very well known. Color, shell pink. 25c. each.
- Lady Battersea**—Hardy Tea. One of the prettiest things in buds grown. Long, tapering, one bloom on a stem. Color, dark red. 25c. each.
- Souvenir du President Carnot**—Hardy Tea. The best rose of its color introduced in ten years. It is superbly lovely in every way, delicacy of texture and coloring and perfect form. A fine garden rose. Continuous free bloomer. Color, a delicate rosy flesh shell pink, shading to a rosy pink in the centre. 25c. each.
- Madame Ravary**—Hardy Tea. A good yellow bedder, long slender buds, very decorative. 50c. each.
- Yellow President Carnot**—Hardy Tea. Bloom of the same superb style and texture as a Carnot. Perfect stems. Color, live waxy golden yellow. 25c. each.
- Madame Wagram**—Hardy Tea. Best all-around, distinctly pink, constant bloomer. Good foliage and free from disease. Color, semi-transparent, clear, solid pink. 35c. each.
- General Jacqueminot**—Hardy Rose. This grand old rose is well known; one of our old favorites, of dark red flowers, 25c. each.
- Duchess of Albany**—Hardy Tea. This is a superb rose, quite commonly called Red La France. A free bloomer, flowers elegant in form. Color, brilliant rose-pink. 25c. each.
- Johannes Wesselhoft**—Hardy Tea. Growth similar to Kaiserin; hardy as La France; persistent bloomer. Color, rich yellow to lemon yellow. 25c. each.
- Ivory**—Tea Rose. Sport from Golden Gate. Color, ivory white. 35c. each.
- Frau Karl Druschki**—Hardy Rose. A grand rose of recent introduction; a strong grower, with very pretty foliage; very fragrant. Color, pure waxy white. 35c. each.
- Winnie Davis**—Hardy Tea. A valuable garden sort, making a neat, strong and upright bush. A profuse bloomer, buds extremely pretty. Color, a clean and pretty apricot pink, 25c. each.
- Etoile de France, Jr.**—Hardy Tea. A sport from Etoile de France, of stronger growth than the parent and more upright, bloom very large, full and deep color, very deep crimson, very fragrant. 50c. each.
- Rainbow**—Hardy Tea. A very useful and pretty striped rose, fine buds, a beautiful shade of pink distinctly striped with bright crimson and toned rich amber-yellow. 25c. each.
- Mme. Caroline Testout**—Hardy T. One of the favorite light-pink roses. Everybody's favorite; fine for cutting and very artistic in vases. 35c. each.
- Wm. Notting**—Hardy Tea. Color, bright rosy cerise, bloom of good size, nice fragrance, one of the good bedders of this color. 50c. each.
- Neervelt**—Hardy Tea. Originated from a cross between Glorie de Dijon and Princess de Bearn. Strong grower. Color, brilliant red. 75c. each.
- Ideal**—Hardy Tea. Color, a beautiful shade of pink, of the La France type. 25c.
- General McArthur**—Hardy Tea. A meritorious rose in every way; one of the grand roses, growth upright, foliage clean and pretty. The color is a bright crimson scarlet, which does not fade. Fine bud and bloom. 35c. each.
- Clara Watson**—Hardy Tea. A new, ever-blooming rose of English origin, robust grower and healthy, flowers of good form and rich fragrance. Color, blush pink, with a shading of yellow at the base of petals. 25c. each.
- Bessie Brown**—This is a prime rose; of strong upright growth, good foliage, and one of the heaviest bloomers. Color, white-tinged flesh. 25c. each.
- Olivia**—Deep rose red, bloom full on nice stems, prime bedding variety. 50c. each.
- Augustine Guinoiseau**—Hardy Tea. White LaFrance. Color, soft flesh. 25c. each.
- Miss Kate Moulton**—Hardy Tea. One of our finest garden roses. Color, soft shell pink. 50c. each.



**Senateur Masgourand**—Hardy Tea. Vigorous and erect grower, flowers full, large and globular. Color, deep orange centre, toning to lighter shades at edge of petals. 50c. each.

**Countess of Gosford**—Hardy Tea. New, of splendid growth, upright, foliage pretty. One of the very high-grade roses, extremely pretty bud. Color, clear salmon pink, base saffron-yellow. 35c. each.

**Antoine Revoire**—Hardy Tea. A new rose of much merit and value for gardens; a handsome, clean and vigorous grower. Color, rosy-flesh, on a yellow ground. 35c. each.

**American Beauty**—Hardy Rose. A grand bedder, long stems, cerise color. 50c. each.

**Double Pink Killarney**—Hardy Tea. A sport from Killarney. 50c. each.

**Helen Gould**—Hardy Tea. A remarkably fine new rose of German origin. A rich, solid, bright pink; shape of buds are fine, resemble Mme. Caroline Testout. 25c. each.

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## The Best Climbing Roses, All Two Years Old.

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**Climbing Kaiserin Augusta Victoria**—Hardy Tea. Continual Bloomer. White. 25c. each.

**Climbing Crimson Rambler**—Well known. 25c.

**Lamarque**—N. A climbing white rose that looks like a mountain of snow all summer. 25c. each.

**Climbing Meteor**—Hardy Tea. Of robust habit and a constant and free bloomer. Color, velvety crimson. 35c. each.

**Duchess de Auerstaedt**—Tea Rose. Yellow climber, double and full, nice foliage, clear golden yellow. 50c. each.

**Climbing Buttercup**—Tea Rose. A good climbing habit; pretty, light-colored foliage; free bloomer; flowers of nice size. Color, a buttercup yellow. 25c. each.

**Climbing Marechal Niel**—N. The most beautiful deep yellow rose known. 50c. each.

**Climbing Devoniensis**—Tea. Often called the Magnolia Rose, on account of its delicate perfume. Of the most beautiful texture; a creamy white, delicately flushed with pink. 35c. each.

**Bardou Job**—B. One of the most showy of roses. Almost a climber. Flowers very large, saucer shape, semi-double; color, deepest velvety crimson. 25c. each.

**Climbing Belle Siebrecht**—Hardy Tea. A most lovely thing in a climber. Color, solid cerise pink; fine bud and flower. 35c. each.

**Prince Camille de Rohan**—Hardy Rose. Very darkest, rich, velvety red rose in existence. Flowers very large and full, and as rich as Meteor. 25c. each.

**Climbing Reve de Or. Noi**—One of the grandest climbing roses. Color, apricot-yellow, with orange and fawn tints. 25c. each.

**Climbing Mrs. Hubert Taylor**—Tea Rose. One of the really good tea roses, which promises to become popular in the garden. 25c. each.

**Climbing Marie Van Houtte**—Tea Rose. Of a beautiful straw color, with outer petals edged with bright rose; a fine garden rose. 25c. each.

**Climbing Bridesmaid**—Identical with its parent (Bridesmaid) except the climbing habit. 35c. each.

**Climbing Dorothea Perkins**—P. Of crimson rambler type; a strong grower; pretty foliage, free from mildew. Color, a pretty pink. 25c. each.

**Climbing Mme. Caroline Testout**—Hardy Tea. One of the prettiest pink roses grown; a fine bud and bloom: strong climber; highly fragrant. 50c. each.

## Make Your Home Grounds Beautiful.

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### Some of the Reasons why we Solicit your Orders for Roses:

Firstly, we claim to be able to give you better value for your money than you can obtain elsewhere.

Our roses are large, field-grown plants, two years old, cut back to three feet, with heavy roots and bushy plants, that will bloom as soon as spring advances.

Considering the quality and A No. 1 grade of our stock, and the fact that we guarantee them to grow or will replace, we also Prepay the Express Charges at prices quoted.

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We make a hobby of growing roses, therefore we can give you better value than if we grew an assortment of nursery stock. We can ship rose plants from November 1st to May 1st of each year.

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Any 6 rose plants from this list for \$1.50 any 12 for \$3.00

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